MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 1.0 GENERAL PLANT INFORMATION

Internet Submittal 2015-04-30

☐ **Request Confidentiality - Check this box only if you intend to formally request confidentiality (see instructions online).**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

FACILITY STREET ADDRESS	COUNTY NAME
41 ST. JUDE ROAD	NEW MADRID

CITY	ZIP CODE + 4	PHONE NUMBER WITH AREA CODE	EXT.	FAX NUMBER WITH AREA CODE
MARSTON	63866 - 0000	573-643-2211	6240	573-643-2001

FACILITY MAILING ADDRESS	CITY	STATE	ZIP CODE + 4
PO BOX 156	NEW MADRID	MO	63869 - 0000

FACILITY CONTACT NAME	FACILITY CONTACT TITLE	FACILITY CONTACT E-MAIL	WHERE TO SEND EIQ IN FUTURE (CHECK ONE)
KEVIN FARMER	SAFETY & ENVIRONMENT	kfarmer@AECI.ORG	☒ Facility Mailing Address ☐ Parent Company Mailing Address

PRODUCT/PRINCIPAL ACTIVITY	SIC	NAICS	NUMBER OF EMPLOYEES
ELECTRICITY	4911	221112	198.00

	LATITUDE	LONGITUDE	UTM COORDINATES				
			ZONE	EASTING(M)	NORTHING(M)	ACC(M)	HORIZONTAL DATUM (Check One)
DEGREES	36	-89	15N	807548.364	4046588.068	15.0	☐ NAD27 ☐ WGS84 ☒ NAD83
MINUTES	30	33					
SECONDS	54.9036	56.7252					

PARENT COMPANY NAME	PHONE NUMBER WITH AREA CODE	EXT.	FAX NUMBER
ASSOCIATED ELECTRIC COOPERATIVE INC	417-881-1204	222	417-885-9394

MAILING ADDRESS	CITY	STATE	ZIP CODE + 4
2814 S GOLDEN AVE PO BOX 754	SPRINGFIELD	MO	65807 - 3213

CONTACT PERSON NAME	CONTACT PERSON TITLE	CONTACT PERSON E-MAIL	COUNTRY
TADD HENRY	SUPV. AIR QUALITY	THENRY@AECI.ORG	UNITED STATES

TOTAL PLANT EMISSIONS FROM FORM 3.0 (TONS PER YEAR)

PM10	SOx	NOx	VOC	CO	LEAD	HAPs	PM25	NH3
914.25	16,671.96	20,566.97	262.86	4,863.59	0.07	145.66	554.04	1.34

The undersigned hereby certifies that they have personally examined and are familiar with the information and statements contained herein and further certifies that they believe this information and statements to be true, accurate and complete. The undersigned certifies that knowingly making a false statement or misrepresenting the facts presented in this document is a violation of state law.

PRINT NAME OF PERSON COMPLETING FORM	TITLE	PAYMENT AMOUNT
SIGNATURE	**DATE**	**CHECK/AUTH.NO.**
PRINT NAME OF AUTHORIZED COMPANY REPRESENTATIVE	**TITLE**	**PAYMENT DATE**
SIGNATURE	**DATE**	

CONTACT INFORMATION

Missouri Department of Natural Resources
Air Pollution Control Program
PO Box 176, 1659 E. Elm St.
Jefferson City, Mo 65102-0176
(573) 751-4817
(866) 663-4748 - MOEIS Help Desk
www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm
eiq@dnr.mo.gov

OFFICE USE ONLY

LOGGED IN BY	DATE

EIQ Comments

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION YEAR	USER ID	EIQ COMMENT
2017	NR$YIETU	EP-16 PAC Silo and FE-08 Paved PAC Haul Road added.
2017	NR$YIETU	SCRs on each unit ran during ozone season only.
2016	NR$YIETU	Overall emissions down on Unit 1 due to extended spring maintenance outage.
2016	NR$YIETU	SCRs for each unit only ran a limited amount of time during the first month of the year for all of 2016. Thus, NOx emissions increased and NH3 emissions decreased for 2016.
2015	NRSTOCT	PMcon was added to diesel combustion emissions (SCC 10100501) for both boilers.
2015	NR$YIETU	NOx emissions reduced as a result of running the SCRs on each unit.
2015	NR$YIETU	NH3 emissions increase due to use of SCRs on each unit.
2015	NR$YIETU	Overall emissions down due to extended spring maintenance outage on Unit 2 and both units being placed in reserve shutdown status for a period of time at the end of the year.
2014	NRWANSB	Changed the exit gas veloicty for S-3, V-2, and V-3 to 13,022 ft/min; per email from Kevin Farmer on 7/10/15. Kevin also confirmed that the vent heights are correct for V-2 and V-5.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 1.2 SUMMARY OF EMISSION UNITS AND RELATED PROCESSES

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

INSTRUCTIONS

If all emissions are below the reporting threshold, mark below as "Insignificant", and do not report on Forms 2.0 and 3.0.
If one pollutant exceeds the reporting threshold, mark below as "Active" and report all pollutants on Forms 2.0 and 3.0.

REPORTING THRESHOLD

Pollutant	PM10	SOx	NOx	VOC	CO	CATEGORY 1 HAPs	CATEGORY 2 HAPs	PM2.5	NH3
Threshold (lbs.)	876	2,000	2,000	876	2,000	20	200	876	876
Threshold (tons)	0.438	1.0	1.0	0.438	1.0	0.01	0.1	0.438	0.438

EMISSION UNIT NO. / SCC	EMISSION UNIT DESCRIPTION (USE SAME DESCRIPTION ON FORM 2.0)	OPERATING STATUS (CHOOSE ONE)				
		Active	Inactive	Dismantled	Under Construction	Insignificant
EP-01 / 10100501	BOILER #1	☒	☐	☐	☐	☐
EP-01 / 10100223	BOILER #1	☒	☐	☐	☐	☐
EP-01 / 10100203	BOILER #1	☒	☐	☐	☐	☐
EP-01 / 10101302	BOILER #1	☒	☐	☐	☐	☐
EP-02 / 10100501	BOILER #2	☒	☐	☐	☐	☐
EP-02 / 10100203	BOILER #2	☒	☐	☐	☐	☐
EP-02 / 10100223	BOILER #2	☒	☐	☐	☐	☐
EP-02 / 10101302	BOILER #2	☒	☐	☐	☐	☐
EP-03 / 20100102	EMERGENCY GENERATOR	☒	☐	☐	☐	☐
EP-04 / 30501008	COAL UNLOADING	☒	☐	☐	☐	☐
EP-05 / 30501011	COAL CONVEYING	☒	☐	☐	☐	☐
EP-05 / 30501011	COAL CONVEYING	☒	☐	☐	☐	☐
EP-05 / 30501011	COAL CONVEYING	☒	☐	☐	☐	☐
EP-05 / 30501011	COAL CONVEYING	☒	☐	☐	☐	☐
EP-06 / 30501010	COAL CRUSHING	☒	☐	☐	☐	☐

EP-07 30501015	ASH LOADING	☒	☐	☐	☐	☐
EP-07 30501015	ASH LOADING	☒	☐	☐	☐	☐
EP-08 40400101	GASOLINE STORAGE	☒	☐	☐	☐	☐
EP-08 40400107	GASOLINE STORAGE	☒	☐	☐	☐	☐
EP-09 20200102	BARGE DIESEL PUMPS	☒	☐	☐	☐	☐
EP-10 20200401	Internal Combustion Engines Industrial - Large Bore Engine Diesel Fuel Fired	☒	☐	☐	☐	☐
EP-11 30501110	Truck load-in of fly ash	☒	☐	☐	☐	☐
EP-12 30501110	Truck load-out of fly ash	☒	☐	☐	☐	☐
EP-14 30501110	Truck load-in of bottom ash	☒	☐	☐	☐	☐
EP-15 30501110	Truck load-out of bottom ash	☒	☐	☐	☐	☐
FE-01 30501043	COAL PILE	☒	☐	☐	☐	☐
FE-01 30502007	COAL PILE	☒	☐	☐	☐	☐
FE-02 30502011	HAUL ROAD	☒	☐	☐	☐	☐
FE-03 30501008	ASH UNLOADING	☒	☐	☐	☐	☐
FE-04 30501024	Paved haul road to landfill (fly ash only)	☒	☐	☐	☐	☐
FE-05 30501024	Unpaved haul road to landfill (fly ash and bottom ash)	☒	☐	☐	☐	☐
FE-06 30502007	Landfill Pile Maintenance	☒	☐	☐	☐	☐
FE-07 50300810	Landfill Wind Erosion	☒	☐	☐	☐	☐

Only emission units marked "Active" on this page will have their associated Form 2.0 and worksheet information displayed in this PDF document.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-01	BOILER #1

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
3	10100501	Grades 1 and 2 Oil

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
173.63	1000 GALLONS	20.00	2.00	6	240.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
14.95	41.77	21.52	21.76

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
140,000,000.00	0.00	0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	1.0000	No Control	81.79	0.02
SOx					
NOx					
VOC	4F	0.2000	No Control	0.00	0.02
CO					
LEAD	4F	0.0013	No Control	49.51	0.00
HAPs					
PM2.5 FIL *	4F	0.2500	No Control	67.37	0.01
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.1 FUEL COMBUSTION WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-01	10100501	3

1. COMBUSTION EQUIPMENT INFORMATION

COAL FIRING CODE LIST	EQUIPMENT DESCRIPTION	YEAR PUT IN SERVICE	COAL FIRING CODE NO. (CODE LIST AT LEFT)	MAXIMUM DESIGN RATE (MILLION BTU/HR.)
1. TANGENTIAL	BOILER #1 - 1 & 2 FUEL OIL	01/01/1972	2	6,340.000000
2. OPPOSED				
3. FRONT				
4. DRY/WET BOTTOM				
OTHER (SPECIFY)				
	Sum of total maximum hourly design rates			6,340.0000

COMBUSTION EQUIPMENT USE (CHECK ONE)

- [x] Electric power generation
- [ ] Industrial use
- [ ] Commercial/Institutional
- [ ] Space heating
- [ ] Other (specify):

COMBUSTION EQUIPMENT CATEGORY - COAL USE ONLY (CHECK ONE)

- [ ] Pulverized coal
- [ ] Pulverized coal dry bottom
- [ ] Pulverized coal wet bottom
- [x] Cyclone
- [ ] Fluidized bed
- [ ] Spreader stoker
- [ ] Overfeed stoker
- [ ] Underfeed stoker
- [ ] Hand fired
- [ ] Other (specify):

2. FUEL INFORMATION (CHECK ONLY ONE)

LIQUID FUELS	GASEOUS FUELS	SOLID FUELS	OTHER
[ ] Ethanol	[ ] Blast oven gas	[ ] Anthracite Coal	[ ] Other (specify):
[x] Fuel oil 1-4 (distillate)	[ ] Coke oven gas	[ ] Bagasse	
[ ] Fuel oil 5-6 (residual)	[ ] Liquid propane gas (LPG)	[ ] Bark	
[ ] Gasoline	[ ] Natural gas	[ ] Bituminous coal	
[ ] Kerosene		[ ] Coke	
		[ ] Lignite	
		[ ] Subbituminous coal	
		[ ] Wood	

3. CALCULATION OF MAXIMUM HOURLY DESIGN RATE

TOTAL HEAT CONTENT (BTU/FUEL UNIT)	MAXIMUM HOURLY DESIGN RATE (FUEL UNIT/HR.)	= Maximum Design Rate (mmbtu/hr.) X 1,000,000 (btu/mmbtu) / Heat Content (btu/fuel unit)
140,000,000.000000	45.28571	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-01	BOILER #1

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
2	10100223	Cyclone Furnace (Subbituminous Coal)

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
2,342,839.00	TONS	24.00	7.00	46	7,728.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
29.19	23.99	21.66	25.16

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
17,238,987.00	4.74	0.20

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	2	22.4276	No Control	99.00	262.72
SOx	1	6.9515	No Control	0.00	8,143.10
NOx	1	139.3808	No Control	93.00	11,429.13
VOC	4F	0.1100	No Control	0.00	128.86
CO	1	2.3592	No Control	0.00	2,763.62
LEAD	5	0.0000	Controlled	0.00	0.03
HAPs	2T	0.0612	No Control	0.00	71.73
PM2.5 FIL *	2	9.4886	No Control	99.00	111.15
NH3	4F	0.0006	No Control	0.00	0.66
PM CON*	2	0.1088	No Control	0.00	127.40

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.T HAZARDOUS AIR POLLUTANT WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-01	10100223	2

Use this form to report any Hazardous Air Pollutant, or HAP, which is emitted in any amount greater than the chemical reporting levels per each emission unit. The instructions for this form provide a list of the HAPs regulated under the Clean Air Act. The amount emitted (Column 4) should be reported before control equipment reductions are applied. Provide documentation (other worksheets, etc.) if the amount in Column 3 does not equal the amount in Column 4. The HAP reporting levels per emission unit are as follows: Category 1 HAPs - sum of 20 pounds per year; All other HAPs - sum of 200 pounds per year.

1. HAP CHEMICAL	2. CAS NUMBER	3. AMOUNT USED OR HANDLED (LBS./YR.)	4. UNCONTROLLED AMOUNT EMITTED (LBS./YR.)	5. UNCONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	6. UNCONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)	7. HAP CONTROL DEVICE(S)	8. CONTROL EFFICIENCY (%)	9. CONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	10. CONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)
Acetaldehyde	75-07-0	129.23	129.23	129.23	0.00		0.00000	129.23	0.00
Arsenic compounds	20-01-9	18.38	18.38	18.38	0.00		0.00000	18.38	0.00
Benzene	71-43-2	157.50	157.50	157.50	0.00		0.00000	157.50	0.00
Chromium compounds	20-06-4	137.81	137.81	137.81	0.00		0.00000	137.81	0.00
Cobalt compounds	20-07-5	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Dichloromethane	75-09-2	145.39	145.39	0.00	145.39		0.00000	0.00	145.39
Dimethyl sulfate	77-78-1	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Dioctyl phthalate	117-81-7	145.39	145.39	145.39	0.00		0.00000	145.39	0.00
Formaldehyde	50-00-0	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Hydrogen chloride	7647-01-0	8,765.54	8,765.54	0.00	8,765.54		0.00000	0.00	8,765.54
Hydrogen fluoride	7664-39-3	134,526.01	134,526.01	0.00	134,526.01		0.00000	0.00	134,526.01
Manganese compounds	20-12-2	195.36	195.36	195.36	0.00		0.00000	195.36	0.00
		HAP Emission Totals =		SUM (LBS./YR.) 1,091.60	SUM (LBS./YR.) 143,469.28			SUM (LBS./YR.) 1,091.60	SUM (LBS./YR.) 143,469.28

Uncontrolled HAP Emission Factor =	Sum of uncontrolled emissions reported as HAPs (Column 6 Total)/Annual Throughput (Form 2.0)	11. HAP EMISSION FACTOR 0.06123736

Enter the HAP emission factor for all chemicals that are not reported as VOCs or PM10 from Block 11 above as the HAP Emission Factor in Section 5 on Form 2.0.

1. HAP CHEMICAL	2. CAS NUMBER	3. AMOUNT USED OR HANDLED (LBS./YR.)	4. UNCONTROLLED AMOUNT EMITTED (LBS./YR.)	5. UNCONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	6. UNCONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)	7. HAP CONTROL DEVICE(S)	8. CONTROL EFFICIENCY (%)	9. CONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	10. CONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)
Mercury compounds	20-13-3	32.34	32.34	0.00	32.34		0.00000	0.00	32.34
Methyl chloride	74-87-3	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Methyl ethyl ketone	78-93-3	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Methyl hydrazine	60-34-4	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
N-Hexane	110-54-3	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Nickel compounds	20-14-4	145.18	145.18	145.18	0.00		0.00000	145.18	0.00
Phenol	108-95-2	133.27	133.27	133.27	0.00		0.00000	133.27	0.00
Vinyl chloride	75-01-4	29.48	29.48	29.48	0.00		0.00000	29.48	0.00
		HAP Emission Totals =		SUM (LBS./YR.) 1,091.60	SUM (LBS./YR.) 143,469.28			SUM (LBS./YR.) 1,091.60	SUM (LBS./YR.) 143,469.28

Uncontrolled HAP Emission Factor =	Sum of uncontrolled emissions reported as HAPs (Column 6 Total)/Annual Throughput (Form 2.0)	11. HAP EMISSION FACTOR 0.06123736

Enter the HAP emission factor for all chemicals that are not reported as VOCs or PM10 from Block 11 above as the HAP Emission Factor in Section 5 on Form 2.0.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.1 FUEL COMBUSTION WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-01	10100223	2

1. COMBUSTION EQUIPMENT INFORMATION

COAL FIRING CODE LIST	EQUIPMENT DESCRIPTION	YEAR PUT IN SERVICE	COAL FIRING CODE NO. (CODE LIST AT LEFT)	MAXIMUM DESIGN RATE (MILLION BTU/HR.)
1. TANGENTIAL	BOILER #1 - SUBBITUMINOUS COAL	01/01/1972	Other	6,340.000000
2. OPPOSED				
3. FRONT				
4. DRY/WET BOTTOM				
OTHER (SPECIFY)				
Cyclone	Sum of total maximum hourly design rates			6,340.0000

COMBUSTION EQUIPMENT USE (CHECK ONE)

- [x] Electric power generation
- [ ] Industrial use
- [ ] Commercial/Institutional
- [ ] Space heating
- [ ] Other (specify):

COMBUSTION EQUIPMENT CATEGORY - COAL USE ONLY (CHECK ONE)

- [ ] Pulverized coal
- [ ] Pulverized coal dry bottom
- [ ] Pulverized coal wet bottom
- [x] Cyclone
- [ ] Fluidized bed
- [ ] Spreader stoker
- [ ] Overfeed stoker
- [ ] Underfeed stoker
- [ ] Hand fired
- [ ] Other (specify):

2. FUEL INFORMATION (CHECK ONLY ONE)

LIQUID FUELS	GASEOUS FUELS	SOLID FUELS	OTHER
[ ] Ethanol	[ ] Blast oven gas	[ ] Anthracite Coal	[ ] Other (specify):
[ ] Fuel oil 1-4 (distillate)	[ ] Coke oven gas	[ ] Bagasse	
[ ] Fuel oil 5-6 (residual)	[ ] Liquid propane gas (LPG)	[ ] Bark	
[ ] Gasoline	[ ] Natural gas	[ ] Bituminous coal	
[ ] Kerosene		[ ] Coke	
		[ ] Lignite	
		[x] Subbituminous coal	
		[ ] Wood	

3. CALCULATION OF MAXIMUM HOURLY DESIGN RATE

TOTAL HEAT CONTENT (BTU/FUEL UNIT)	MAXIMUM HOURLY DESIGN RATE (FUEL UNIT/HR.)	= Maximum Design Rate (mmbtu/hr.) X 1,000,000 (btu/mmbtu) / Heat Content (btu/fuel unit)
17,238,987.000000	367.77100	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-01	BOILER #1

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	10100203	Cyclone Furnace (Bituminous Coal)

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
579.00	TONS	24.00	7.00	4	672.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
0.00	0.00	0.00	100.00

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
22,008,000.00	8.70	8.70

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	2	22.4276	No Control	99.00	0.06
SOx					
NOx					
VOC	4F	0.1100	No Control	0.00	0.03
CO	1	2.3592	No Control	0.00	0.68
LEAD	4F	0.0004	Controlled	0.00	0.00
HAPs					
PM2.5 FIL *	2	9.4886	No Control	99.00	0.03
NH3					
PM CON*	2	0.1088	No Control	0.00	0.03

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.1 FUEL COMBUSTION WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-01	10100203	1

1. COMBUSTION EQUIPMENT INFORMATION

COAL FIRING CODE LIST	EQUIPMENT DESCRIPTION	YEAR PUT IN SERVICE	COAL FIRING CODE NO. (CODE LIST AT LEFT)	MAXIMUM DESIGN RATE (MILLION BTU/HR.)
1. TANGENTIAL	BOILER #1 - BITUMINOUS COAL	01/01/1972	2	6,340.000000
2. OPPOSED				
3. FRONT				
4. DRY/WET BOTTOM				
OTHER (SPECIFY)				
	Sum of total maximum hourly design rates			6,340.0000

COMBUSTION EQUIPMENT USE (CHECK ONE)

- [x] Electric power generation
- [ ] Industrial use
- [ ] Commercial/Institutional
- [ ] Space heating
- [ ] Other (specify):

COMBUSTION EQUIPMENT CATEGORY - COAL USE ONLY (CHECK ONE)

- [ ] Pulverized coal
- [ ] Pulverized coal dry bottom
- [ ] Pulverized coal wet bottom
- [x] Cyclone
- [ ] Fluidized bed
- [ ] Spreader stoker
- [ ] Overfeed stoker
- [ ] Underfeed stoker
- [ ] Hand fired
- [ ] Other (specify):

2. FUEL INFORMATION (CHECK ONLY ONE)

LIQUID FUELS	GASEOUS FUELS	SOLID FUELS	OTHER
[ ] Ethanol	[ ] Blast oven gas	[ ] Anthracite Coal	[ ] Other (specify):
[ ] Fuel oil 1-4 (distillate)	[ ] Coke oven gas	[ ] Bagasse	
[ ] Fuel oil 5-6 (residual)	[ ] Liquid propane gas (LPG)	[ ] Bark	
[ ] Gasoline	[ ] Natural gas	[x] Bituminous coal	
[ ] Kerosene		[ ] Coke	
		[ ] Lignite	
		[ ] Subbituminous coal	
		[ ] Wood	

3. CALCULATION OF MAXIMUM HOURLY DESIGN RATE

TOTAL HEAT CONTENT (BTU/FUEL UNIT)	MAXIMUM HOURLY DESIGN RATE (FUEL UNIT/HR.)	= Maximum Design Rate (mmbtu/hr.) X 1,000,000 (btu/mmbtu) / Heat Content (btu/fuel unit)
22,008,000.000000	288.07706	

MO 780-1436 (12-09)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-01	BOILER #1

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
4	10101302	Waste Oil

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
2.17	1000 GALLONS	20.00	2.00	6	240.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
57.24	20.20	21.72	0.84

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
150,000,000.00	0.05	0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	2.5500	No Control	95.00	0.00
SOx					
NOx					
VOC	4	1.0000	No Control	0.00	0.00
CO					
LEAD	4	2.2000	No Control	66.78	0.00
HAPs					
PM2.5 FIL *	4	0.2880	No Control	95.00	0.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.1 FUEL COMBUSTION WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-01	10101302	4

1. COMBUSTION EQUIPMENT INFORMATION

COAL FIRING CODE LIST	EQUIPMENT DESCRIPTION	YEAR PUT IN SERVICE	COAL FIRING CODE NO. (CODE LIST AT LEFT)	MAXIMUM DESIGN RATE (MILLION BTU/HR.)
1. TANGENTIAL	BOILER #1 - WASTE OIL	01/01/0001		6,340.000000
2. OPPOSED				
3. FRONT				
4. DRY/WET BOTTOM				
OTHER (SPECIFY)				
	Sum of total maximum hourly design rates			6,340.0000

COMBUSTION EQUIPMENT USE (CHECK ONE)

- [x] Electric power generation
- [ ] Industrial use
- [ ] Commercial/Institutional
- [ ] Space heating
- [ ] Other (specify):

COMBUSTION EQUIPMENT CATEGORY - COAL USE ONLY (CHECK ONE)

- [ ] Pulverized coal
- [ ] Pulverized coal dry bottom
- [ ] Pulverized coal wet bottom
- [x] Cyclone
- [ ] Fluidized bed
- [ ] Spreader stoker
- [ ] Overfeed stoker
- [ ] Underfeed stoker
- [ ] Hand fired
- [ ] Other (specify):

2. FUEL INFORMATION (CHECK ONLY ONE)

LIQUID FUELS	GASEOUS FUELS	SOLID FUELS	OTHER
[ ] Ethanol	[ ] Blast oven gas	[ ] Anthracite Coal	[x] Other (specify):
[ ] Fuel oil 1-4 (distillate)	[ ] Coke oven gas	[ ] Bagasse	WASTE OIL
[ ] Fuel oil 5-6 (residual)	[ ] Liquid propane gas (LPG)	[ ] Bark	
[ ] Gasoline	[ ] Natural gas	[ ] Bituminous coal	
[ ] Kerosene		[ ] Coke	
		[ ] Lignite	
		[ ] Subbituminous coal	
		[ ] Wood	

3. CALCULATION OF MAXIMUM HOURLY DESIGN RATE

TOTAL HEAT CONTENT (BTU/FUEL UNIT)	MAXIMUM HOURLY DESIGN RATE (FUEL UNIT/HR.)	= Maximum Design Rate (mmbtu/hr.) X 1,000,000 (btu/mmbtu) / Heat Content (btu/fuel unit)
150,000,000.000000	42.26667	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-02	BOILER #2

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
3	10100501	Grades 1 and 2 Oil

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
71.59	1000 GALLONS	20.00	2.00	6	240.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
23.29	20.42	23.30	32.99

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
140,000,000.00	NaN	0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	1.0000	No Control	47.29	0.02
SOx					
NOx					
VOC	4F	0.2000	No Control	0.00	0.01
CO					
LEAD	4	0.0013	No Control	33.25	0.00
HAPs					
PM2.5 FIL *	4F	0.2500	No Control	76.35	0.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.1 FUEL COMBUSTION WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-02	10100501	3

1. COMBUSTION EQUIPMENT INFORMATION

COAL FIRING CODE LIST	EQUIPMENT DESCRIPTION	YEAR PUT IN SERVICE	COAL FIRING CODE NO. (CODE LIST AT LEFT)	MAXIMUM DESIGN RATE (MILLION BTU/HR.)
1. TANGENTIAL	BOILER #2 - 1 & 2 FUEL OIL	01/01/1997	2	6,340.000000
2. OPPOSED				
3. FRONT				
4. DRY/WET BOTTOM				
OTHER (SPECIFY)				
	Sum of total maximum hourly design rates			6,340.0000

COMBUSTION EQUIPMENT USE (CHECK ONE)

- [x] Electric power generation
- [ ] Industrial use
- [ ] Commercial/Institutional
- [ ] Space heating
- [ ] Other (specify):

COMBUSTION EQUIPMENT CATEGORY - COAL USE ONLY (CHECK ONE)

- [ ] Pulverized coal
- [ ] Pulverized coal dry bottom
- [ ] Pulverized coal wet bottom
- [x] Cyclone
- [ ] Fluidized bed
- [ ] Spreader stoker
- [ ] Overfeed stoker
- [ ] Underfeed stoker
- [ ] Hand fired
- [ ] Other (specify):

2. FUEL INFORMATION (CHECK ONLY ONE)

LIQUID FUELS	GASEOUS FUELS	SOLID FUELS	OTHER
[ ] Ethanol	[ ] Blast oven gas	[ ] Anthracite Coal	[ ] Other (specify):
[x] Fuel oil 1-4 (distillate)	[ ] Coke oven gas	[ ] Bagasse	
[ ] Fuel oil 5-6 (residual)	[ ] Liquid propane gas (LPG)	[ ] Bark	
[ ] Gasoline	[ ] Natural gas	[ ] Bituminous coal	
[ ] Kerosene		[ ] Coke	
		[ ] Lignite	
		[ ] Subbituminous coal	
		[ ] Wood	

3. CALCULATION OF MAXIMUM HOURLY DESIGN RATE

TOTAL HEAT CONTENT (BTU/FUEL UNIT)	MAXIMUM HOURLY DESIGN RATE (FUEL UNIT/HR.)	= Maximum Design Rate (mmbtu/hr.) X 1,000,000 (btu/mmbtu) / Heat Content (btu/fuel unit)
140,000,000.000000	45.28571	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-02	BOILER #2

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	10100203	Cyclone Furnace (Bituminous Coal)

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
0.00	TONS	24.00	7.00	44	7,392.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
100.00	0.00	0.00	0.00

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
26,000,000.00	8.70	8.70

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	2	22.3808	No Control	99.00	0.00
SOx					
NOx					
VOC	4F	0.1100	No Control	0.00	0.00
CO	4F	1.1297	No Control	0.00	0.00
LEAD	4F	0.0004	Controlled	0.00	0.00
HAPs					
PM2.5 FIL *	2	9.4688	No Control	99.00	0.00
NH3					
PM CON*	2	0.1575	No Control	0.00	0.00

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.1 FUEL COMBUSTION WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-02	10100203	1

1. COMBUSTION EQUIPMENT INFORMATION

COAL FIRING CODE LIST	EQUIPMENT DESCRIPTION	YEAR PUT IN SERVICE	COAL FIRING CODE NO. (CODE LIST AT LEFT)	MAXIMUM DESIGN RATE (MILLION BTU/HR.)
1. TANGENTIAL	BOILER #2 - BITUMINOUS COAL	08/16/1977		6,340.000000
2. OPPOSED				
3. FRONT				
4. DRY/WET BOTTOM				
OTHER (SPECIFY)				
	Sum of total maximum hourly design rates			6,340.0000

COMBUSTION EQUIPMENT USE (CHECK ONE)

- [x] Electric power generation
- [ ] Industrial use
- [ ] Commercial/Institutional
- [ ] Space heating
- [ ] Other (specify):

COMBUSTION EQUIPMENT CATEGORY - COAL USE ONLY (CHECK ONE)

- [ ] Pulverized coal
- [ ] Pulverized coal dry bottom
- [ ] Pulverized coal wet bottom
- [x] Cyclone
- [ ] Fluidized bed
- [ ] Spreader stoker
- [ ] Overfeed stoker
- [ ] Underfeed stoker
- [ ] Hand fired
- [ ] Other (specify):

2. FUEL INFORMATION (CHECK ONLY ONE)

LIQUID FUELS	GASEOUS FUELS	SOLID FUELS	OTHER
[ ] Ethanol	[ ] Blast oven gas	[ ] Anthracite Coal	[ ] Other (specify):
[ ] Fuel oil 1-4 (distillate)	[ ] Coke oven gas	[ ] Bagasse	
[ ] Fuel oil 5-6 (residual)	[ ] Liquid propane gas (LPG)	[ ] Bark	
[ ] Gasoline	[ ] Natural gas	[x] Bituminous coal	
[ ] Kerosene		[ ] Coke	
		[ ] Lignite	
		[ ] Subbituminous coal	
		[ ] Wood	

3. CALCULATION OF MAXIMUM HOURLY DESIGN RATE

TOTAL HEAT CONTENT (BTU/FUEL UNIT)	MAXIMUM HOURLY DESIGN RATE (FUEL UNIT/HR.)	= Maximum Design Rate (mmbtu/hr.) X 1,000,000 (btu/mmbtu) / Heat Content (btu/fuel unit)
26,000,000.000000	243.84620	

MO 780-1436 (12-09)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-02	BOILER #2

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
2	10100223	Cyclone Furnace (Subbituminous Coal)

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
2,425,995.00	TONS	24.00	7.00	49	8,232.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
24.12	26.73	24.54	24.61

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
17,238,987.00	4.74	0.20

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	2	22.3808	No Control	99.00	271.48
SOx	1	7.0311	No Control	0.00	8,528.70
NOx	1	107.5926	No Control	93.00	9,135.67
VOC	4F	0.1100	No Control	0.00	133.43
CO	1	1.7302	No Control	0.00	2,098.79
LEAD	5	0.0000	Controlled	0.00	0.04
HAPs	2T	0.0609	No Control	0.00	73.93
PM2.5 FIL *	2	9.4688	No Control	99.00	114.86
NH3	4F	0.0006	No Control	0.00	0.69
PM CON*	2	0.1575	No Control	0.00	191.05

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.T HAZARDOUS AIR POLLUTANT WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-02	10100223	2

Use this form to report any Hazardous Air Pollutant, or HAP, which is emitted in any amount greater than the chemical reporting levels per each emission unit. The instructions for this form provide a list of the HAPs regulated under the Clean Air Act. The amount emitted (Column 4) should be reported before control equipment reductions are applied. Provide documentation (other worksheets, etc.) if the amount in Column 3 does not equal the amount in Column 4. The HAP reporting levels per emission unit are as follows: Category 1 HAPs - sum of 20 pounds per year; All other HAPs - sum of 200 pounds per year.

1. HAP CHEMICAL	2. CAS NUMBER	3. AMOUNT USED OR HANDLED (LBS./YR.)	4. UNCONTROLLED AMOUNT EMITTED (LBS./YR.)	5. UNCONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	6. UNCONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)	7. HAP CONTROL DEVICE(S)	8. CONTROL EFFICIENCY (%)	9. CONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	10. CONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)
Acetaldehyde	75-07-0	133.78	133.78	133.78	0.00		0.00000	133.78	0.00
Arsenic compounds	20-01-9	18.89	18.89	18.89	0.00		0.00000	18.89	0.00
Benzene	71-43-2	163.05	163.05	163.05	0.00		0.00000	163.05	0.00
Chromium compounds	20-06-4	141.29	141.29	141.29	0.00		0.00000	141.29	0.00
Cobalt compounds	20-07-5	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Dichloromethane	75-09-2	150.51	150.51	0.00	150.51		0.00000	0.00	150.51
Dimethyl sulfate	77-78-1	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Dioctyl phthalate	117-81-7	150.51	150.51	150.51	0.00		0.00000	150.51	0.00
Formaldehyde	50-00-0	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Hydrogen chloride	7647-01-0	9,030.62	9,030.62	0.00	9,030.62		0.00000	0.00	9,030.62
Hydrogen fluoride	7664-39-3	138,647.07	138,647.07	0.00	138,647.07		0.00000	0.00	138,647.07
Manganese compounds	20-12-2	201.33	201.33	201.33	0.00		0.00000	201.33	0.00
		HAP Emission Totals =		SUM (LBS./YR.) 1,126.85	SUM (LBS./YR.) 147,861.61			SUM (LBS./YR.) 1,126.85	SUM (LBS./YR.) 147,861.61

Uncontrolled HAP Emission Factor =	Sum of uncontrolled emissions reported as HAPs (Column 6 Total)/Annual Throughput (Form 2.0)	11. HAP EMISSION FACTOR 0.06094885

Enter the HAP emission factor for all chemicals that are not reported as VOCs or PM10 from Block 11 above as the HAP Emission Factor in Section 5 on Form 2.0.

1. HAP CHEMICAL	2. CAS NUMBER	3. AMOUNT USED OR HANDLED (LBS./YR.)	4. UNCONTROLLED AMOUNT EMITTED (LBS./YR.)	5. UNCONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	6. UNCONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)	7. HAP CONTROL DEVICE(S)	8. CONTROL EFFICIENCY (%)	9. CONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	10. CONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)
Mercury compounds	20-13-3	33.41	33.41	0.00	33.41		0.00000	0.00	33.41
Methyl chloride	74-87-3	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Methyl ethyl ketone	78-93-3	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Methyl hydrazine	60-34-4	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
N-Hexane	110-54-3	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Nickel compounds	20-14-4	149.52	149.52	149.52	0.00		0.00000	149.52	0.00
Phenol	108-95-2	137.96	137.96	137.96	0.00		0.00000	137.96	0.00
Vinyl chloride	75-01-4	30.52	30.52	30.52	0.00		0.00000	30.52	0.00
		HAP Emission Totals =		SUM (LBS./YR.) 1,126.85	SUM (LBS./YR.) 147,861.61			SUM (LBS./YR.) 1,126.85	SUM (LBS./YR.) 147,861.61

Uncontrolled HAP Emission Factor =	Sum of uncontrolled emissions reported as HAPs (Column 6 Total)/Annual Throughput (Form 2.0)	11. HAP EMISSION FACTOR 0.06094885

Enter the HAP emission factor for all chemicals that are not reported as VOCs or PM10 from Block 11 above as the HAP Emission Factor in Section 5 on Form 2.0.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.1 FUEL COMBUSTION WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-02	10100223	2

1. COMBUSTION EQUIPMENT INFORMATION

COAL FIRING CODE LIST	EQUIPMENT DESCRIPTION	YEAR PUT IN SERVICE	COAL FIRING CODE NO. (CODE LIST AT LEFT)	MAXIMUM DESIGN RATE (MILLION BTU/HR.)
1. TANGENTIAL	BOILER #2 - SUBBITUMINOUS COAL	01/01/1997	2	6,340.000000
2. OPPOSED				
3. FRONT				
4. DRY/WET BOTTOM				
OTHER (SPECIFY)				
	Sum of total maximum hourly design rates			6,340.0000

COMBUSTION EQUIPMENT USE (CHECK ONE)

- [x] Electric power generation
- [ ] Industrial use
- [ ] Commercial/Institutional
- [ ] Space heating
- [ ] Other (specify):

COMBUSTION EQUIPMENT CATEGORY - COAL USE ONLY (CHECK ONE)

- [ ] Pulverized coal
- [ ] Pulverized coal dry bottom
- [ ] Pulverized coal wet bottom
- [x] Cyclone
- [ ] Fluidized bed
- [ ] Spreader stoker
- [ ] Overfeed stoker
- [ ] Underfeed stoker
- [ ] Hand fired
- [ ] Other (specify):

2. FUEL INFORMATION (CHECK ONLY ONE)

LIQUID FUELS	GASEOUS FUELS	SOLID FUELS	OTHER
[ ] Ethanol	[ ] Blast oven gas	[ ] Anthracite Coal	[ ] Other (specify):
[ ] Fuel oil 1-4 (distillate)	[ ] Coke oven gas	[ ] Bagasse	
[ ] Fuel oil 5-6 (residual)	[ ] Liquid propane gas (LPG)	[ ] Bark	
[ ] Gasoline	[ ] Natural gas	[ ] Bituminous coal	
[ ] Kerosene		[ ] Coke	
		[ ] Lignite	
		[x] Subbituminous coal	
		[ ] Wood	

3. CALCULATION OF MAXIMUM HOURLY DESIGN RATE

TOTAL HEAT CONTENT (BTU/FUEL UNIT)	MAXIMUM HOURLY DESIGN RATE (FUEL UNIT/HR.)	= Maximum Design Rate (mmbtu/hr.) X 1,000,000 (btu/mmbtu) / Heat Content (btu/fuel unit)
17,238,987.000000	367.77100	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-02	BOILER #2

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
4	10101302	Waste Oil

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
2.17	1000 GALLONS	20.00	2.00	6	240.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
57.24	20.20	21.72	0.84

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
150,000,000.00	0.05	0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	2.5500	No Control	95.00	0.00
SOx					
NOx					
VOC	4F	1.0000	No Control	0.00	0.00
CO					
LEAD	4F	2.2000	No Control	66.80	0.00
HAPs					
PM2.5 FIL *	4F	0.2880	No Control	95.00	0.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.1 FUEL COMBUSTION WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-02	10101302	4

1. COMBUSTION EQUIPMENT INFORMATION

COAL FIRING CODE LIST	EQUIPMENT DESCRIPTION	YEAR PUT IN SERVICE	COAL FIRING CODE NO. (CODE LIST AT LEFT)	MAXIMUM DESIGN RATE (MILLION BTU/HR.)
1. TANGENTIAL	BOILER #2 - WASTE OIL	08/17/1977		6,340.000000
2. OPPOSED				
3. FRONT				
4. DRY/WET BOTTOM				
OTHER (SPECIFY)				
	Sum of total maximum hourly design rates			6,340.0000

COMBUSTION EQUIPMENT USE (CHECK ONE)

- [x] Electric power generation
- [ ] Industrial use
- [ ] Commercial/Institutional
- [ ] Space heating
- [ ] Other (specify):

COMBUSTION EQUIPMENT CATEGORY - COAL USE ONLY (CHECK ONE)

- [ ] Pulverized coal
- [ ] Pulverized coal dry bottom
- [ ] Pulverized coal wet bottom
- [x] Cyclone
- [ ] Fluidized bed
- [ ] Spreader stoker
- [ ] Overfeed stoker
- [ ] Underfeed stoker
- [ ] Hand fired
- [ ] Other (specify):

2. FUEL INFORMATION (CHECK ONLY ONE)

LIQUID FUELS	GASEOUS FUELS	SOLID FUELS	OTHER
[ ] Ethanol	[ ] Blast oven gas	[ ] Anthracite Coal	[x] Other (specify):
[ ] Fuel oil 1-4 (distillate)	[ ] Coke oven gas	[ ] Bagasse	WASTE OIL
[ ] Fuel oil 5-6 (residual)	[ ] Liquid propane gas (LPG)	[ ] Bark	
[ ] Gasoline	[ ] Natural gas	[ ] Bituminous coal	
[ ] Kerosene		[ ] Coke	
		[ ] Lignite	
		[ ] Subbituminous coal	
		[ ] Wood	

3. CALCULATION OF MAXIMUM HOURLY DESIGN RATE

TOTAL HEAT CONTENT (BTU/FUEL UNIT)	MAXIMUM HOURLY DESIGN RATE (FUEL UNIT/HR.)	= Maximum Design Rate (mmbtu/hr.) X 1,000,000 (btu/mmbtu) / Heat Content (btu/fuel unit)
150,000,000.000000	42.26667	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-03	EMERGENCY GENERATOR

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	20100102	Reciprocating

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
6.95	1000 GALLONS	1.00	1.00	52	52.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
25.00	25.00	25.00	25.00

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
140,000,000.00	0.00	0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	14.0000	No Control	0.00	0.05
SOx	4F	39.7000	No Control	0.00	0.14
NOx	4F	604.0000	No Control	0.00	2.10
VOC	4F	49.3000	No Control	0.00	0.17
CO	4F	130.0000	No Control	0.00	0.45
LEAD					
HAPs					
PM2.5 FIL *	4F	14.0000	No Control	0.00	0.05
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.1 FUEL COMBUSTION WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-03	20100102	1

1. COMBUSTION EQUIPMENT INFORMATION

COAL FIRING CODE LIST	EQUIPMENT DESCRIPTION	YEAR PUT IN SERVICE	COAL FIRING CODE NO. (CODE LIST AT LEFT)	MAXIMUM DESIGN RATE (MILLION BTU/HR.)
1. TANGENTIAL	EMERGENCY GENERATOR	01/01/1983		8.350000
2. OPPOSED				
3. FRONT				
4. DRY/WET BOTTOM				
OTHER (SPECIFY)				
	Sum of total maximum hourly design rates			8.3500

COMBUSTION EQUIPMENT USE (CHECK ONE)

- [x] Electric power generation
- [ ] Industrial use
- [ ] Commercial/Institutional
- [ ] Space heating
- [ ] Other (specify):

COMBUSTION EQUIPMENT CATEGORY - COAL USE ONLY (CHECK ONE)

- [ ] Pulverized coal
- [ ] Pulverized coal dry bottom
- [ ] Pulverized coal wet bottom
- [ ] Cyclone
- [ ] Fluidized bed
- [ ] Spreader stoker
- [ ] Overfeed stoker
- [ ] Underfeed stoker
- [ ] Hand fired
- [x] Other (specify): EMERGENCY GENERATOR

2. FUEL INFORMATION (CHECK ONLY ONE)

LIQUID FUELS	GASEOUS FUELS	SOLID FUELS	OTHER
[ ] Ethanol	[ ] Blast oven gas	[ ] Anthracite Coal	[ ] Other (specify):
[x] Fuel oil 1-4 (distillate)	[ ] Coke oven gas	[ ] Bagasse	
[ ] Fuel oil 5-6 (residual)	[ ] Liquid propane gas (LPG)	[ ] Bark	
[ ] Gasoline	[ ] Natural gas	[ ] Bituminous coal	
[ ] Kerosene		[ ] Coke	
		[ ] Lignite	
		[ ] Subbituminous coal	
		[ ] Wood	

3. CALCULATION OF MAXIMUM HOURLY DESIGN RATE

TOTAL HEAT CONTENT (BTU/FUEL UNIT)	MAXIMUM HOURLY DESIGN RATE (FUEL UNIT/HR.)
140,000,000.000000	0.05964

$$= \frac{\text{Maximum Design Rate (mmbtu/hr.) X 1,000,000 (btu/mmbtu)}}{\text{Heat Content (btu/fuel unit)}}$$

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-04	COAL UNLOADING

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30501008	Unloading

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
3,962,805.00	TONS	12.00	6.00	50	3,600.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
28.11	20.13	29.04	22.72

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF): 0.00

SULFUR % (INCLUDE IN EF): 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	0.0006	No Control	99.00	0.01
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0002	No Control	99.00	0.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-05	COAL CONVEYING

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30501011	Coal Transfer

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
3,962,805.00	TONS	12.00	6.00	50	3,600.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
28.11	20.13	29.04	22.72

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF): 0.00

SULFUR % (INCLUDE IN EF): 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	0.0013	No Control	65.00	0.90
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0004	No Control	65.00	0.26
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-05	COAL CONVEYING

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
2	30501011	Coal Transfer

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
4,769,413.00	TONS	24.00	7.00	44	7,392.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
27.88	22.61	27.55	21.96

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF): 0.00

SULFUR % (INCLUDE IN EF): 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	0.0012	No Control	99.00	0.03
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0003	No Control	99.00	0.01
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-05	COAL CONVEYING

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
3	30501011	Coal Transfer

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
4,769,413.00	TONS	20.00	7.00	44	6,160.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
27.88	22.61	27.55	21.96

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF): 0.00

SULFUR % (INCLUDE IN EF): 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	0.0006	No Control	99.00	0.02
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0002	No Control	99.00	0.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-05	COAL CONVEYING

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
4	30501011	Coal Transfer

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
4,769,413.00	TONS	20.00	7.00	44	6,160.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
27.88	22.61	27.55	21.96

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
	0.00	0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
					Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000 = Actual Emissions (tons)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	0.0013	No Control	99.00	0.03
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0004	No Control	99.00	0.01
NH3					
PM CON*					

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-06	COAL CRUSHING

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30501010	Crushing

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
4,769,413.00	TONS	24.00	7.00	44	7,392.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
27.88	22.61	27.55	21.96

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF): 0.00

SULFUR % (INCLUDE IN EF): 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	0.0193	No Control	99.00	0.46
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0056	No Control	99.00	0.13
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-07	ASH LOADING

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30501015	Ash Loading (At Silos - Other than the Paddle Mixer)

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
0.00	TONS	24.00	7.00	52	8,736.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
25.00	25.00	25.00	25.00

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF): 0.00

SULFUR % (INCLUDE IN EF): 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	0.0500	Controlled	0.00	0.00
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0146	No Control	0.00	0.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-07	ASH LOADING

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
2	30501015	Ash Loading (At Silos - Other than the Paddle Mixer)

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
0.00	TONS	12.00	2.00	1	24.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
0.00	75.88	24.12	0.00

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF): 0.00

SULFUR % (INCLUDE IN EF): 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4	0.0060	No Control	99.00	0.00
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0018	No Control	99.00	0.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-08	GASOLINE STORAGE

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	40400101	Gasoline RVP 13: Breathing Loss (67000 Bbl Capacity) - Fixed Roof Tank

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
17.12	1000 GALLONS	24.00	7.00	52	8,736.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
25.00	25.00	25.00	25.00

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF): 0.00

SULFUR % (INCLUDE IN EF): 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *					
SOx					
NOx					
VOC	4F	30.5000	No Control	0.00	0.26
CO					
LEAD					
HAPs					
PM2.5 FIL *					
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-08	GASOLINE STORAGE

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
2	40400107	Gasoline RVP 13: Working Loss (Diam. Independent) - Fixed Roof Tank

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
17.12	1000 GALLONS	2.00	7.00	52	728.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
28.58	28.65	25.12	17.65

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF): 0.00

SULFUR % (INCLUDE IN EF): 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *					
SOx					
NOx					
VOC	4F	10.0000	No Control	0.00	0.09
CO					
LEAD					
HAPs					
PM2.5 FIL *					
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-09	BARGE DIESEL PUMPS

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	20200102	Reciprocating

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
0.00	1000 GALLONS	1.00	1.00	52	52.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
25.00	25.00	25.00	25.00

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
140,000,000.00	0.00	0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	42.5000	No Control	0.00	0.00
SOx	4F	39.7000	No Control	0.00	0.00
NOx	4F	604.0000	No Control	0.00	0.00
VOC	4F	49.3000	No Control	0.00	0.00
CO	4F	130.0000	No Control	0.00	0.00
LEAD					
HAPs	5	10.6919	No Control	0.00	0.00
PM2.5 FIL *	4F	42.5000	No Control	0.00	0.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.T HAZARDOUS AIR POLLUTANT WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-09	20200102	1

Use this form to report any Hazardous Air Pollutant, or HAP, which is emitted in any amount greater than the chemical reporting levels per each emission unit. The instructions for this form provide a list of the HAPs regulated under the Clean Air Act. The amount emitted (Column 4) should be reported before control equipment reductions are applied. Provide documentation (other worksheets, etc.) if the amount in Column 3 does not equal the amount in Column 4. The HAP reporting levels per emission unit are as follows: Category 1 HAPs - sum of 20 pounds per year; All other HAPs - sum of 200 pounds per year.

1. HAP CHEMICAL	2. CAS NUMBER	3. AMOUNT USED OR HANDLED (LBS./YR.)	4. UNCONTROLLED AMOUNT EMITTED (LBS./YR.)	5. UNCONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	6. UNCONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)	7. HAP CONTROL DEVICE(S)	8. CONTROL EFFICIENCY (%)	9. CONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	10. CONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)
1,3-Butadiene	106-99-0	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Acetaldehyde	75-07-0	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Acrolein	107-02-8	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Benzene	71-43-2	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Formaldehyde	50-00-0	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Isomers of xylene	1330-20-7	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Naphthalene	91-20-3	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Propionaldehyde	123-38-6	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Propylene oxide	75-56-9	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
Toluene	108-88-3	0.00	0.00	0.00	0.00		0.00000	0.00	0.00
		HAP Emission Totals =		SUM (LBS./YR.) 0.00	SUM (LBS./YR.) 0.00			SUM (LBS./YR.) 0.00	SUM (LBS./YR.) 0.00

Uncontrolled HAP Emission Factor =	Sum of uncontrolled emissions reported as HAPs (Column 6 Total)/Annual Throughput (Form 2.0)	11. HAP EMISSION FACTOR 0.0

Enter the HAP emission factor for all chemicals that are not reported as VOCs or PM10 from Block 11 above as the HAP Emission Factor in Section 5 on Form 2.0.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.1 FUEL COMBUSTION WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-09	20200102	1

1. COMBUSTION EQUIPMENT INFORMATION

COAL FIRING CODE LIST	EQUIPMENT DESCRIPTION	YEAR PUT IN SERVICE	COAL FIRING CODE NO. (CODE LIST AT LEFT)	MAXIMUM DESIGN RATE (MILLION BTU/HR.)
1. TANGENTIAL	BARGE DIESEL PUMPS (QUANTITY-10)	01/01/2001		7.840000
2. OPPOSED				
3. FRONT				
4. DRY/WET BOTTOM				
OTHER (SPECIFY)				
	Sum of total maximum hourly design rates			7.8400

COMBUSTION EQUIPMENT USE (CHECK ONE)

- [x] Electric power generation
- [ ] Industrial use
- [ ] Commercial/Institutional
- [ ] Space heating
- [ ] Other (specify):

COMBUSTION EQUIPMENT CATEGORY - COAL USE ONLY (CHECK ONE)

- [ ] Pulverized coal
- [ ] Pulverized coal dry bottom
- [ ] Pulverized coal wet bottom
- [ ] Cyclone
- [ ] Fluidized bed
- [ ] Spreader stoker
- [ ] Overfeed stoker
- [ ] Underfeed stoker
- [ ] Hand fired
- [x] Other (specify): Barge Diesel Pumps

2. FUEL INFORMATION (CHECK ONLY ONE)

LIQUID FUELS	GASEOUS FUELS	SOLID FUELS	OTHER
[ ] Ethanol	[ ] Blast oven gas	[ ] Anthracite Coal	[ ] Other (specify):
[x] Fuel oil 1-4 (distillate)	[ ] Coke oven gas	[ ] Bagasse	
[ ] Fuel oil 5-6 (residual)	[ ] Liquid propane gas (LPG)	[ ] Bark	
[ ] Gasoline	[ ] Natural gas	[ ] Bituminous coal	
[ ] Kerosene		[ ] Coke	
		[ ] Lignite	
		[ ] Subbituminous coal	
		[ ] Wood	

3. CALCULATION OF MAXIMUM HOURLY DESIGN RATE

TOTAL HEAT CONTENT (BTU/FUEL UNIT)	MAXIMUM HOURLY DESIGN RATE (FUEL UNIT/HR.)
140,000,000.000000	0.05600

$$= \frac{\text{Maximum Design Rate (mmbtu/hr.) X 1,000,000 (btu/mmbtu)}}{\text{Heat Content (btu/fuel unit)}}$$

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-10	Internal Combustion Engines Industrial - Large Bore Engine Diesel Fuel Fired

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	20200401	Internal Combustion Engines Industrial - Large Bore Engine Diesel Fuel Fired

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? [X] Yes [ ] No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? [ ] Yes [X] No IF FUGITIVE, WHAT PERCENTAGE?

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
1.34	1000 GALLONS	24.00	7.00	6	1,008.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
52.03	0.00	47.97	0.00

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
140,000,000.00	0.00	0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	5 - Emission Factors provided by Engine Manufacturer	5.1480	No Control	0.00	0.00
SOx	5	35.0000	No Control	0.00	0.02
NOx	5	110.8801	No Control	0.00	0.07
VOC					
CO	5	67.3200	No Control	0.00	0.05
LEAD					
HAPs					
PM2.5 FIL *	5	5.0240	No Control	0.00	0.00
NH3					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

PM CON*						* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MO 780-1621 (05-10)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.1 FUEL COMBUSTION WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
EP-10	20200401	1

1. COMBUSTION EQUIPMENT INFORMATION

COAL FIRING CODE LIST	EQUIPMENT DESCRIPTION	YEAR PUT IN SERVICE	COAL FIRING CODE NO. (CODE LIST AT LEFT)	MAXIMUM DESIGN RATE (MILLION BTU/HR.)
1. TANGENTIAL	Temporary Air Compressors (non-outage)	01/01/2009		21.000000
2. OPPOSED				
3. FRONT				
4. DRY/WET BOTTOM				
OTHER (SPECIFY)				
	Sum of total maximum hourly design rates			21.0000

COMBUSTION EQUIPMENT USE (CHECK ONE)

- [X] Electric power generation
- [ ] Industrial use
- [ ] Commercial/Institutional
- [ ] Space heating
- [ ] Other (specify):

COMBUSTION EQUIPMENT CATEGORY - COAL USE ONLY (CHECK ONE)

- [ ] Pulverized coal
- [ ] Pulverized coal dry bottom
- [ ] Pulverized coal wet bottom
- [ ] Cyclone
- [ ] Fluidized bed
- [ ] Spreader stoker
- [ ] Overfeed stoker
- [ ] Underfeed stoker
- [ ] Hand fired
- [ ] Other (specify):

2. FUEL INFORMATION (CHECK ONLY ONE)

LIQUID FUELS	GASEOUS FUELS	SOLID FUELS	OTHER
[ ] Ethanol	[ ] Blast oven gas	[ ] Anthracite Coal	[ ] Other (specify):
[ ] Fuel oil 1-4 (distillate)	[ ] Coke oven gas	[ ] Bagasse	
[ ] Fuel oil 5-6 (residual)	[ ] Liquid propane gas (LPG)	[ ] Bark	
[ ] Gasoline	[ ] Natural gas	[ ] Bituminous coal	
[ ] Kerosene		[ ] Coke	
		[ ] Lignite	
		[ ] Subbituminous coal	
		[ ] Wood	

3. CALCULATION OF MAXIMUM HOURLY DESIGN RATE

TOTAL HEAT CONTENT (BTU/FUEL UNIT)	MAXIMUM HOURLY DESIGN RATE (FUEL UNIT/HR.)	= Maximum Design Rate (mmbtu/hr.) X 1,000,000 (btu/mmbtu) / Heat Content (btu/fuel unit)
140,000,000.000000	0.15000	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-11	Truck load-in of fly ash

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30501110	Truck load-in of fly ash

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? ☐ Yes ☒ No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? ☒ Yes ☐ No IF FUGITIVE, WHAT PERCENTAGE? 100.00

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
100,458.37	TONS	24.00	7.00	52	8,736.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
38.09	28.13	17.46	16.32

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF) 0.00

SULFUR % (INCLUDE IN EF) 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4 - 13.2.4	0.0005	No Control	50.00	0.01
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0001	No Control	50.00	0.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-12	Truck load-out of fly ash

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30501110	Ash Unloading at Landfill

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? ☐ Yes ☒ No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? ☒ Yes ☐ No IF FUGITIVE, WHAT PERCENTAGE? 100.00

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
93,514.71	TONS	24.00	7.00	52	8,736.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
38.09	28.13	17.46	16.32

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF) 0.00

SULFUR % (INCLUDE IN EF) 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	28	0.1420	No Control	0.00	6.64
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0213	No Control	0.00	1.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.8 STORAGE PILE WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. STORAGE PILE INFORMATION

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	TYPE OF MATERIAL STORED
EP-12	30501110	1	Fly ash and bottom ash

MOISTURE CONTENT (%)	AREA OF STORAGE PILE (ACRES)
0.70 (DEFAULT = 0.7%)	0.00

SILT CONTENT (%)	RAW MATERIAL LOADING METHOD (CHECK ONE):	RAW MATERIAL UNLOADING METHOD (CHECK ONE):
1.60 (DEFAULT = 1.6%)	☐ Barge ☐ Rail ☒ Truck ☐ Conveyor ☐ Other (specify)	☐ Barge ☐ Rail ☒ Truck ☐ Conveyor ☐ Other (specify)
STORAGE DURATION (DAYS): 365		
ANNUAL AMOUNT STORED (TONS): 35,750.799		
MAXIMUM HOURLY AMOUNT STORED (TONS): 35,750.7996		

2. OTHER FACTORS AFFECTING EMISSION RATES

MEAN WIND SPEED (MPH)	% OF TIME WIND > 12 MPH
10.0 (DEFAULT = 10 MPH)	32.0 (DEFAULT = 32%)
DRY DAYS PER YEAR: 260 (DEFAULT = 260 DAYS)	VEHICLE ACTIVITY FACTOR: 1.000 (DEFAULT = 1.0)

3. STORAGE PILE EMISSION FACTOR CALCULATIONS

CALCULATION	FORMULA	RESULT
[3-A-1] Load In - Load Out Component (lb./ton)	0.0032 x .35 x (Mean wind speed) / 5)^1.3 / (Moisture content % / 2)^1.4	0.012
[3-A-2] Vehicle Activity Component (lb./ton)	0.05 x (Silt content % / 1.5) x (Dry days per year / 235) x Vehicle Activity Factor	0.05900709
[3-A-3] Activity PM10 Emission Factor (lb./ton)	[3-A-1] Load In - Load Out Component + [3-A-2] Vehicle Activity Component	0.07100709
[3-B] Wind Erosion PM10 Emission Factor (lb./acre-yr.)	0.85 x (Silt content % / 1.5) x (Storage duration (Days)) x (Dry days per year / 235) x (% of time wind > 12 MPH / 15)	781.09654846

NOTE

If you use a Source Classification Code and emission factor from the list in the instructions for this form, make sure to complete Section 1, Storage Pile Information for each storage pile.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-14	Truck load-in of bottom ash

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30501110	Truck load-in of bottom ash

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? ☐ Yes ☒ No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? ☒ Yes ☐ No IF FUGITIVE, WHAT PERCENTAGE? 100.00

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
0.00	TONS	24.00	7.00	52	8,736.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
25.00	25.00	25.00	25.00

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF) 0.00

SULFUR % (INCLUDE IN EF) 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4 - 13.2.4	0.0008	No Control	0.00	0.00
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0002	No Control	0.00	0.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
EP-15	Truck load-out of bottom ash

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30501110	Truck load-out of bottom ash

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? ☐ Yes ☒ No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? ☒ Yes ☐ No IF FUGITIVE, WHAT PERCENTAGE? 100.00

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
0.00	TONS	24.00	7.00	52	8,736.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
25.00	25.00	25.00	25.00

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
	0.00	0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	28	0.0710	No Control	0.00	0.00
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0107	No Control	0.00	0.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.8 STORAGE PILE WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. STORAGE PILE INFORMATION

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	TYPE OF MATERIAL STORED
EP-15	30501110	1	Bottom ash

MOISTURE CONTENT (%)	AREA OF STORAGE PILE (ACRES)
0.70 (DEFAULT = 0.7%)	0.00

SILT CONTENT (%)	RAW MATERIAL LOADING METHOD (CHECK ONE):	RAW MATERIAL UNLOADING METHOD (CHECK ONE):
1.60 (DEFAULT = 1.6%)	☐ Barge ☐ Rail ☒ Truck ☐ Conveyor ☐ Other (specify)	☐ Barge ☐ Rail ☒ Truck ☐ Conveyor ☐ Other (specify)

STORAGE DURATION (DAYS)
365

ANNUAL AMOUNT STORED (TONS)
0.000

MAXIMUM HOURLY AMOUNT STORED (TONS)
0.0000

2. OTHER FACTORS AFFECTING EMISSION RATES

MEAN WIND SPEED (MPH)	% OF TIME WIND > 12 MPH
10.0 (DEFAULT = 10 MPH)	32.0 (DEFAULT = 32%)

DRY DAYS PER YEAR	VEHICLE ACTIVITY FACTOR
260 (DEFAULT = 260 DAYS)	1.000 (DEFAULT = 1.0)

3. STORAGE PILE EMISSION FACTOR CALCULATIONS

CALCULATION	FORMULA	RESULT
[3-A-1] Load In - Load Out Component (lb./ton)	0.0032 x .35 x (Mean wind speed) / 5)^1.3 / (Moisture content % / 2)^1.4	0.012
[3-A-2] Vehicle Activity Component (lb./ton)	0.05 x (Silt content % / 1.5) x (Dry days per year / 235) x Vehicle Activity Factor	0.05900709
[3-A-3] Activity PM10 Emission Factor (lb./ton)	[3-A-1] Load In - Load Out Component + [3-A-2] Vehicle Activity Component	0.07100709
[3-B] Wind Erosion PM10 Emission Factor (lb./acre-yr.)	0.85 x (Silt content % / 1.5) x (Storage duration (Days)) x (Dry days per year / 235) x (% of time wind > 12 MPH / 15)	781.09654846

NOTE

If you use a Source Classification Code and emission factor from the list in the instructions for this form, make sure to complete Section 1, Storage Pile Information for each storage pile.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
FE-01	COAL PILE

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30501043	Open Storage Pile: Coal (Wind Erosion)

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? ☐ Yes ☒ No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? ☒ Yes ☐ No IF FUGITIVE, WHAT PERCENTAGE? 100.00

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
36.41	ACRES	24.00	7.00	52	8,736.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
25.00	25.00	25.00	25.00

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
	0.00	0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	28	781.0965	No Control	50.00	7.11
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	117.1650	No Control	50.00	1.07
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000 = Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.8 STORAGE PILE WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. STORAGE PILE INFORMATION

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	TYPE OF MATERIAL STORED
FE-01	30501043	1	COAL

MOISTURE CONTENT (%)	AREA OF STORAGE PILE (ACRES)
0.70 (DEFAULT = 0.7%)	0.00

SILT CONTENT (%)	RAW MATERIAL LOADING METHOD (CHECK ONE):	RAW MATERIAL UNLOADING METHOD (CHECK ONE):
1.60 (DEFAULT = 1.6%)	☐ Barge ☐ Rail ☐ Truck ☐ Conveyor ☒ Other (specify) SCRAPERS, DOZER	☐ Barge ☐ Rail ☐ Truck ☒ Conveyor ☐ Other (specify)
STORAGE DURATION (DAYS): 365		
ANNUAL AMOUNT STORED (TONS): 9,295,033.000		
MAXIMUM HOURLY AMOUNT STORED (TONS): 856,884.0000		

2. OTHER FACTORS AFFECTING EMISSION RATES

MEAN WIND SPEED (MPH)	% OF TIME WIND > 12 MPH
10.0 (DEFAULT = 10 MPH)	32.0 (DEFAULT = 32%)
DRY DAYS PER YEAR: 260 (DEFAULT = 260 DAYS)	VEHICLE ACTIVITY FACTOR: 1.000 (DEFAULT = 1.0)

3. STORAGE PILE EMISSION FACTOR CALCULATIONS

CALCULATION	FORMULA	RESULT
[3-A-1] Load In - Load Out Component (lb./ton)	0.0032 x .35 x (Mean wind speed) / 5)^1.3 / (Moisture content % / 2)^1.4	0.012
[3-A-2] Vehicle Activity Component (lb./ton)	0.05 x (Silt content % / 1.5) x (Dry days per year / 235) x Vehicle Activity Factor	0.05900709
[3-A-3] Activity PM10 Emission Factor (lb./ton)	[3-A-1] Load In - Load Out Component + [3-A-2] Vehicle Activity Component	0.07100709
[3-B] Wind Erosion PM10 Emission Factor (lb./acre-yr.)	0.85 x (Silt content % / 1.5) x (Storage duration (Days)) x (Dry days per year / 235) x (% of time wind > 12 MPH / 15)	781.09654846

NOTE

If you use a Source Classification Code and emission factor from the list in the instructions for this form, make sure to complete Section 1, Storage Pile Information for each storage pile.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
FE-01	COAL PILE

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
2	30502007	Open Storage Pile: Coal (Activity)

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? ☐ Yes ☒ No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? ☒ Yes ☐ No IF FUGITIVE, WHAT PERCENTAGE? 100.00

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
8,732,218.00	TONS	12.00	3.50	22	924.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
25.00	25.00	25.00	25.00

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF): 0.00

SULFUR % (INCLUDE IN EF): 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	28	0.0167	No Control	50.00	36.50
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0025	No Control	50.00	5.46
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.8 STORAGE PILE WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. STORAGE PILE INFORMATION

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	TYPE OF MATERIAL STORED
FE-01	30502007	2	COAL & COKE

MOISTURE CONTENT (%)	AREA OF STORAGE PILE (ACRES)
0.70 (DEFAULT = 0.7%)	0.00

SILT CONTENT (%)	RAW MATERIAL LOADING METHOD (CHECK ONE):	RAW MATERIAL UNLOADING METHOD (CHECK ONE):
1.60 (DEFAULT = 1.6%)	☐ Barge ☐ Rail ☐ Truck ☐ Conveyor ☒ Other (specify) SCRAPERS, DOZER	☐ Barge ☐ Rail ☐ Truck ☒ Conveyor ☐ Other (specify)
STORAGE DURATION (DAYS): 365		
ANNUAL AMOUNT STORED (TONS): 9,295,033.000		
MAXIMUM HOURLY AMOUNT STORED (TONS): 856,884.0000		

2. OTHER FACTORS AFFECTING EMISSION RATES

MEAN WIND SPEED (MPH)	% OF TIME WIND > 12 MPH
10.0 (DEFAULT = 10 MPH)	32.0 (DEFAULT = 32%)
DRY DAYS PER YEAR	VEHICLE ACTIVITY FACTOR
260 (DEFAULT = 260 DAYS)	0.080 (DEFAULT = 1.0)

3. STORAGE PILE EMISSION FACTOR CALCULATIONS

CALCULATION	FORMULA	RESULT
[3-A-1] Load In - Load Out Component (lb./ton)	0.0032 x .35 x (Mean wind speed) / 5)^1.3 / (Moisture content % / 2)^1.4	0.012
[3-A-2] Vehicle Activity Component (lb./ton)	0.05 x (Silt content % / 1.5) x (Dry days per year / 235) x Vehicle Activity Factor	0.00472057
[3-A-3] Activity PM10 Emission Factor (lb./ton)	[3-A-1] Load In - Load Out Component + [3-A-2] Vehicle Activity Component	0.01672057
[3-B] Wind Erosion PM10 Emission Factor (lb./acre-yr.)	0.85 x (Silt content % / 1.5) x (Storage duration (Days)) x (Dry days per year / 235) x (% of time wind > 12 MPH / 15)	781.09654846

NOTE

If you use a Source Classification Code and emission factor from the list in the instructions for this form, make sure to complete Section 1, Storage Pile Information for each storage pile.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
FE-02	HAUL ROAD

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30502011	Hauling

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? ☐ Yes ☒ No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? ☒ Yes ☐ No IF FUGITIVE, WHAT PERCENTAGE? 100.00

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
2,329.95	MILES	24.00	7.00	52	8,736.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
27.88	22.61	27.55	21.96

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF) 0.00

SULFUR % (INCLUDE IN EF) 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	27	1.9909	No Control	50.00	1.16
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	27	0.1991	No Control	50.00	0.12
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.7 HAUL ROAD FUGITIVE EMISSIONS WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

INSTRUCTIONS

This worksheet is **optional**

If the sum of all Vehicle Miles Traveled, or VMT, at the facility is less than 100, this form is not necessary and the emission unit should be marked as insignificant on Form 1.2.

If the haul road parameters are the same as last year and the updated emission factor equation is used (AP-42, Section 13.2.2, *Unpaved Roads*, Nov. 2006), enter the current annual VMT as the throughput on Form 2.0.

Do not calculate a separate emission factor for each vehicle class. Use the weighted average for the entire fleet traveling the haul road to calculate the emission factors.

1. HAUL ROAD INFORMATION

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
FE-02	30502011	1

LENGTH OF ROAD (MILES): IF ONE-WAY, DIVIDE BY 2: 0.2500

SILT CONTENT (%) (DEFAULT = 8.3%)	SURFACE MATERIAL OF ROAD
8.300	CRUSHED ROCK SLAG

DAYS OF RAIN WITH AT LEAST 0.01" PER YEAR (DEFAULT = 105): 105

Type of Dust Control (check one)	Control Efficiency
☐ Paved with Washing	95%
☐ Paved	90%
☐ Surfactant Spray	90%
☐ Water Spray Documented	90%
☒ Water Spray	50%
☐ Other - Specify	
☐ No Controls	0%

2. HAUL TRUCK INFORMATION

MAKE/MODEL	UNLOADED TRUCK WEIGHT (TONS) - WEIGHTED AVERAGE FOR FLEET
TRUCK	15.00

AVERAGE WEIGHT OF MATERIAL PER LOAD (TONS)	AVERAGE LOADED WEIGHT (TONS) - WEIGHTED AVERAGE FOR FLEET
20.000	35.00

3. MATERIAL HAULED

TYPE OF MATERIALS HAULED	ANNUAL AMOUNT HAULED (TONS)
SLAG, FLYASH	93,198.0000

4. CALCULATION OF ANNUAL VEHICLE MILES TRAVELED

ANNUAL VMT	
2,329.95	Annual VMT = $\frac{2 \times (\text{Length of road}) \times (\text{Annual amount hauled})}{(\text{Average weight of material per load})}$

5. CALCULATION OF HAUL ROAD UNCONTROLLED EMISSION FACTOR

PM2.5 EMISSION FACTOR	0.15 x [Silt Content % / 12] ^ 0.9 x [(Unloaded truck weight + Loaded truck weight (tons)) / 6] ^ 0.45 x [(365 - Days of Rain) / 365]	PM2.5 EMISSION FACTOR: 0.19
PM10 EMISSION FACTOR	1.5 x [Silt Content % / 12] ^ 0.9 x [(Unloaded truck weight + Loaded truck weight (tons)) / 6] ^ 0.45 x [(365 - Days of Rain) / 365]	PM10 EMISSION FACTOR: 1.99

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
FE-03	ASH UNLOADING

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30501008	Ash Unloading at Pond (Alt. Op. Scenario)

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? ☐ Yes ☒ No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? ☒ Yes ☐ No IF FUGITIVE, WHAT PERCENTAGE? 100.00

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
6,943.66	TONS	24.00	7.00	44	7,392.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
27.88	22.61	27.55	21.96

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF): 0.00

SULFUR % (INCLUDE IN EF): 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	4F	0.0060	No Control	50.00	0.01
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0018	No Control	50.00	0.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
FE-04	Paved haul road to landfill (fly ash only)

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30501024	Paved haul road to landfill (fly ash only)

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? ☐ Yes ☒ No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? ☒ Yes ☐ No IF FUGITIVE, WHAT PERCENTAGE? 100.00

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
763.48	MILES	24.00	7.00	52	8,736.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
38.09	28.13	17.46	16.32

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF) NaN

SULFUR % (INCLUDE IN EF) 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	27	0.0955	No Control	0.00	0.04
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	27	0.0095	No Control	0.00	0.00
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.7 HAUL ROAD FUGITIVE EMISSIONS WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

INSTRUCTIONS

This worksheet is **optional**

If the sum of all Vehicle Miles Traveled, or VMT, at the facility is less than 100, this form is not necessary and the emission unit should be marked as insignificant on Form 1.2.

If the haul road parameters are the same as last year and the updated emission factor equation is used (AP-42, Section 13.2.2, *Unpaved Roads*, Nov. 2006), enter the current annual VMT as the throughput on Form 2.0.

Do not calculate a separate emission factor for each vehicle class. Use the weighted average for the entire fleet traveling the haul road to calculate the emission factors.

1. HAUL ROAD INFORMATION

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
FE-04	30501024	1

LENGTH OF ROAD (MILES): IF ONE-WAY, DIVIDE BY 2: 0.1520

SILT CONTENT (%) (DEFAULT = 8.3%)	SURFACE MATERIAL OF ROAD
0.200	Paved

DAYS OF RAIN WITH AT LEAST 0.01" PER YEAR (DEFAULT = 105): 115

Type of Dust Control (check one)	Control Efficiency
☐ Paved with Washing	95%
☐ Paved	90%
☐ Surfactant Spray	90%
☐ Water Spray Documented	90%
☐ Water Spray	50%
☐ Other - Specify	
☒ No Controls	0%

2. HAUL TRUCK INFORMATION

MAKE/MODEL	UNLOADED TRUCK WEIGHT (TONS) - WEIGHTED AVERAGE FOR FLEET
Catepillar	35.00

AVERAGE WEIGHT OF MATERIAL PER LOAD (TONS)	AVERAGE LOADED WEIGHT (TONS) - WEIGHTED AVERAGE FOR FLEET
40.000	75.00

3. MATERIAL HAULED

TYPE OF MATERIALS HAULED	ANNUAL AMOUNT HAULED (TONS)
fly ash	100,458.3700

4. CALCULATION OF ANNUAL VEHICLE MILES TRAVELED

ANNUAL VMT	
763.48	Annual VMT = $\frac{\text{2 x (Length of road) x (Annual amount hauled)}}{\text{(Average weight of material per load)}}$

5. CALCULATION OF HAUL ROAD UNCONTROLLED EMISSION FACTOR

PM2.5 EMISSION FACTOR	0.15 x [Silt Content % / 12] ^ 0.9 x [(Unloaded truck weight + Loaded truck weight (tons)) / 6] ^ 0.45 x [(365 - Days of Rain) / 365]	PM2.5 EMISSION FACTOR: 0.00
PM10 EMISSION FACTOR	1.5 x [Silt Content % / 12] ^ 0.9 x [(Unloaded truck weight + Loaded truck weight (tons)) / 6] ^ 0.45 x [(365 - Days of Rain) / 365]	PM10 EMISSION FACTOR: 0.09

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
FE-05	Unpaved haul road to landfill (fly ash and bottom ash)

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30501024	Unpaved haul road to landfill (fly ash and bottom ash)

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? ☐ Yes ☒ No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? ☒ Yes ☐ No IF FUGITIVE, WHAT PERCENTAGE? 100.00

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
4,897.35	MILES	24.00	7.00	52	8,736.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
38.09	28.13	17.46	16.32

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF) 0.00

SULFUR % (INCLUDE IN EF) 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	27	1.7610	No Control	50.00	2.16
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	27	0.1761	No Control	50.00	0.22
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.7 HAUL ROAD FUGITIVE EMISSIONS WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

INSTRUCTIONS

This worksheet is **optional**	If the sum of all Vehicle Miles Traveled, or VMT, at the facility is less than 100, this form is not necessary and the emission unit should be marked as insignificant on Form 1.2.
	If the haul road parameters are the same as last year and the updated emission factor equation is used (AP-42, Section 13.2.2, *Unpaved Roads*, Nov. 2006), enter the current annual VMT as the throughput on Form 2.0.

Do not calculate a separate emission factor for each vehicle class. Use the weighted average for the entire fleet traveling the haul road to calculate the emission factors.

1. HAUL ROAD INFORMATION

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
FE-05	30501024	1

LENGTH OF ROAD (MILES): IF ONE-WAY, DIVIDE BY 2: 0.9750

SILT CONTENT (%) (DEFAULT = 8.3%)	SURFACE MATERIAL OF ROAD
5.100	Unpaved

DAYS OF RAIN WITH AT LEAST 0.01" PER YEAR (DEFAULT = 105): 115

Type of Dust Control (check one)	Control Efficiency
☐ Paved with Washing	95%
☐ Paved	90%
☐ Surfactant Spray	90%
☐ Water Spray Documented	90%
☒ Water Spray	50%
☐ Other - Specify	
☐ No Controls	0%

2. HAUL TRUCK INFORMATION

MAKE/MODEL	UNLOADED TRUCK WEIGHT (TONS) - WEIGHTED AVERAGE FOR FLEET
Caterpillar	35.00

AVERAGE WEIGHT OF MATERIAL PER LOAD (TONS)	AVERAGE LOADED WEIGHT (TONS) - WEIGHTED AVERAGE FOR FLEET
40.000	75.00

3. MATERIAL HAULED

TYPE OF MATERIALS HAULED	ANNUAL AMOUNT HAULED (TONS)
fly ash and bottom ash	100,458.3700

4. CALCULATION OF ANNUAL VEHICLE MILES TRAVELED

ANNUAL VMT	
4,897.34	Annual VMT = $\frac{2 \times (\text{Length of road}) \times (\text{Annual amount hauled})}{(\text{Average weight of material per load})}$

5. CALCULATION OF HAUL ROAD UNCONTROLLED EMISSION FACTOR

PM2.5 EMISSION FACTOR	0.15 x [Silt Content % / 12] ^ 0.9 x [(Unloaded truck weight + Loaded truck weight (tons)) / 6] ^ 0.45 x [(365 - Days of Rain) / 365]	PM2.5 EMISSION FACTOR: 0.17
PM10 EMISSION FACTOR	1.5 x [Silt Content % / 12] ^ 0.9 x [(Unloaded truck weight + Loaded truck weight (tons)) / 6] ^ 0.45 x [(365 - Days of Rain) / 365]	PM10 EMISSION FACTOR: 1.76

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
FE-06	Landfill Pile Maintenance

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	30502007	Landfill pile maintenance

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? ☐ Yes ☒ No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? ☒ Yes ☐ No IF FUGITIVE, WHAT PERCENTAGE? 100.00

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
93,514.71	TONS	24.00	7.00	52	8,736.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
38.09	28.13	17.46	16.32

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)

ASH % (INCLUDE IN EF) 0.00

SULFUR % (INCLUDE IN EF) 0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	28	0.0710	No Control	50.00	1.66
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	0.0259	No Control	50.00	0.60
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.8 STORAGE PILE WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. STORAGE PILE INFORMATION

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	TYPE OF MATERIAL STORED
FE-06	30502007	1	Fly ash and bottom ash

MOISTURE CONTENT (%): 0.70 (DEFAULT = 0.7%)	AREA OF STORAGE PILE (ACRES): 25.00
SILT CONTENT (%): 1.60 (DEFAULT = 1.6%)	RAW MATERIAL LOADING METHOD (CHECK ONE): ☐ Barge ☐ Rail ☒ Truck ☐ Conveyor ☐ Other (specify)
STORAGE DURATION (DAYS): 365	RAW MATERIAL UNLOADING METHOD (CHECK ONE): ☐ Barge ☐ Rail ☒ Truck ☐ Conveyor ☐ Other (specify)
ANNUAL AMOUNT STORED (TONS): 35,750.799	
MAXIMUM HOURLY AMOUNT STORED (TONS): 35,750.7990	

2. OTHER FACTORS AFFECTING EMISSION RATES

MEAN WIND SPEED (MPH): 10.0 (DEFAULT = 10 MPH)	% OF TIME WIND > 12 MPH: 32.0 (DEFAULT = 32%)
DRY DAYS PER YEAR: 260 (DEFAULT = 260 DAYS)	VEHICLE ACTIVITY FACTOR: 1.000 (DEFAULT = 1.0)

3. STORAGE PILE EMISSION FACTOR CALCULATIONS

CALCULATION	FORMULA	RESULT
[3-A-1] Load In - Load Out Component (lb./ton)	0.0032 x .35 x (Mean wind speed) / 5)^1.3 / (Moisture content % / 2)^1.4	0.012
[3-A-2] Vehicle Activity Component (lb./ton)	0.05 x (Silt content % / 1.5) x (Dry days per year / 235) x Vehicle Activity Factor	0.05900709
[3-A-3] Activity PM10 Emission Factor (lb./ton)	[3-A-1] Load In - Load Out Component + [3-A-2] Vehicle Activity Component	0.07100709
[3-B] Wind Erosion PM10 Emission Factor (lb./acre-yr.)	0.85 x (Silt content % / 1.5) x (Storage duration (Days)) x (Dry days per year / 235) x (% of time wind > 12 MPH / 15)	781.09654846

NOTE

If you use a Source Classification Code and emission factor from the list in the instructions for this form, make sure to complete Section 1, Storage Pile Information for each storage pile.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0 EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
FE-07	Landfill Wind Erosion

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
1	50300810	Landfill wind erosion

DO THE EMISSIONS FROM THIS EMISSION UNIT FLOW THROUGH A STACK OR VENT? ☐ Yes ☒ No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? ☒ Yes ☐ No IF FUGITIVE, WHAT PERCENTAGE? 100.00

3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT	UNITS	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	TOTAL HOURS/YEAR
25.00	ACRES	24.00	7.00	52	8,736.00

DEC-FEB (%)	MAR-MAY (%)	JUN-AUG (%)	SEPT-NOV (%)
25.00	25.00	25.00	25.00

4. ANNUAL FUEL CHARACTERISTICS

For coal or fuel oil, list details below

Heat Content (BTU/Fuel Unit)	ASH % (INCLUDE IN EF)	SULFUR % (INCLUDE IN EF)
	0.00	0.00

5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR(EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)
Instructions:	Choose from the Source of Emission Factor list at lower right	Lbs./unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing
PM10 FIL *	28	751.0544	No Control	50.00	4.69
SOx					
NOx					
VOC					
CO					
LEAD					
HAPs					
PM2.5 FIL *	5	92.3370	No Control	50.00	0.58
NH3					
PM CON*					

Annual Throughput x Emission Factor x (1-Overall Control Eff/100) ÷ 2000

= Actual Emissions (tons)

List Other Worksheets or AP-42/Other Reference

SOURCE OF EMISSION FACTOR LIST

1. CEM	Include documentation
2. Stack Test	Include documentation
3. Mass Balance	Include documentation
4. AP-42	Include reference
4F. FIRE or webFIRE	
5. Other	Include documentation
EC. Engr Calc	Include documentation
LS. Landfill Spdsht	Include documentation
TK. TANKS Program	Supply TANKS output
2.3. VOC Mass Bal	Complete Form 2.3
2.4. Liquid Loading	Complete Form 2.4
2.7. Haul Road	Complete Form 2.7
2.8. Storage Pile	Complete Form 2.8
2.T. HAP Worksheet	Complete Form 2.T
2.9. Stack Test/CEM	Complete Form 2.9
2.0L. Landfill	Complete Form 2.0L

* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.8 STORAGE PILE WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

1. STORAGE PILE INFORMATION

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	TYPE OF MATERIAL STORED
FE-07	50300810	1	Fly ash and bottom ash

MOISTURE CONTENT (%): 7.00 (DEFAULT = 0.7%)	AREA OF STORAGE PILE (ACRES): 0.00
SILT CONTENT (%): 1.60 (DEFAULT = 1.6%)	RAW MATERIAL LOADING METHOD (CHECK ONE): ☐ Barge ☐ Rail ☒ Truck ☐ Conveyor ☐ Other (specify)
STORAGE DURATION (DAYS): 365	RAW MATERIAL UNLOADING METHOD (CHECK ONE): ☐ Barge ☐ Rail ☒ Truck ☐ Conveyor ☐ Other (specify)
ANNUAL AMOUNT STORED (TONS): 35,750.799	
MAXIMUM HOURLY AMOUNT STORED (TONS): 35,750.7990	

2. OTHER FACTORS AFFECTING EMISSION RATES

MEAN WIND SPEED (MPH): 10.0 (DEFAULT = 10 MPH)	% OF TIME WIND > 12 MPH: 32.0 (DEFAULT = 32%)
DRY DAYS PER YEAR: 250 (DEFAULT = 260 DAYS)	VEHICLE ACTIVITY FACTOR: 1.000 (DEFAULT = 1.0)

3. STORAGE PILE EMISSION FACTOR CALCULATIONS

CALCULATION	FORMULA	RESULT
[3-A-1] Load In - Load Out Component (lb./ton)	0.0032 x .35 x (Mean wind speed) / 5)^1.3 / (Moisture content % / 2)^1.4	0.000
[3-A-2] Vehicle Activity Component (lb./ton)	0.05 x (Silt content % / 1.5) x (Dry days per year / 235) x Vehicle Activity Factor	0.05673759
[3-A-3] Activity PM10 Emission Factor (lb./ton)	[3-A-1] Load In - Load Out Component + [3-A-2] Vehicle Activity Component	0.05673759
[3-B] Wind Erosion PM10 Emission Factor (lb./acre-yr.)	0.85 x (Silt content % / 1.5) x (Storage duration (Days)) x (Dry days per year / 235) x (% of time wind > 12 MPH / 15)	751.05437352

NOTE

If you use a Source Classification Code and emission factor from the list in the instructions for this form, make sure to complete Section 1, Storage Pile Information for each storage pile.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-01	10100501	3	CD04	128

CONTROL DEVICE DESCRIPTION: ESP-HIGH EFFICIENCY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-1

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000					100.0000		100.0000		
CONTROL DEVICE EFFICIENCY (%)	95.0000					95.0000		95.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-01	10100501	3	CD10	139

CONTROL DEVICE DESCRIPTION: Selective Catalytic Reduction for NOx Control

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-1

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)			100.0000							
CONTROL DEVICE EFFICIENCY (%)			93.0000							
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-01	10100223	2	CD04	128

CONTROL DEVICE DESCRIPTION: ESP-HIGH EFFICIENCY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-1

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000					100.0000		100.0000		
CONTROL DEVICE EFFICIENCY (%)	95.0000					95.0000		95.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-01	10100223	2	CD10	139

CONTROL DEVICE DESCRIPTION: Selective Catalytic Reduction for NOx Control

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-1

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)			100.0000							
CONTROL DEVICE EFFICIENCY (%)			93.0000							
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-01	10100203	1	CD04	128

CONTROL DEVICE DESCRIPTION: ESP-HIGH EFFICIENCY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-1

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000					100.0000		100.0000		
CONTROL DEVICE EFFICIENCY (%)	95.0000					95.0000		95.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-01	10100203	1	CD10	139

CONTROL DEVICE DESCRIPTION: Selective Catalytic Reduction for NOx Control

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-1

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)			100.0000							
CONTROL DEVICE EFFICIENCY (%)			93.0000							
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-01	10101302	4	CD04	128

CONTROL DEVICE DESCRIPTION: ESP-HIGH EFFICIENCY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-1

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000					100.0000		100.0000		
CONTROL DEVICE EFFICIENCY (%)	95.0000					95.0000		95.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-01	10101302	4	CD10	139

CONTROL DEVICE DESCRIPTION: Selective Catalytic Reduction for NOx Control

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-1

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)			100.0000							
CONTROL DEVICE EFFICIENCY (%)			93.0000							
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-02	10100501	3	CD05	128

CONTROL DEVICE DESCRIPTION: ESP-HIGH EFFICIENCY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000					100.0000		100.0000		
CONTROL DEVICE EFFICIENCY (%)	95.0000					95.0000		95.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-02	10100501	3	CD11	139

CONTROL DEVICE DESCRIPTION: Selective Catalytic Reduction for NOx Control

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)			100.0000							
CONTROL DEVICE EFFICIENCY (%)			93.0000							
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-02	10100203	1	CD05	128

CONTROL DEVICE DESCRIPTION: ESP-HIGH EFFICIENCY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000					100.0000		100.0000		
CONTROL DEVICE EFFICIENCY (%)	95.0000					95.0000		95.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-02	10100203	1	CD11	139

CONTROL DEVICE DESCRIPTION: Selective Catalytic Reduction for NOx Control

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)			100.0000							
CONTROL DEVICE EFFICIENCY (%)			93.0000							
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-02	10100223	2	CD05	128

CONTROL DEVICE DESCRIPTION: ESP-HIGH EFFICIENCY

OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? [X] Yes [ ] No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000					100.0000		100.0000		
CONTROL DEVICE EFFICIENCY (%)	95.0000					95.0000		95.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-02	10100223	2	CD11	139

CONTROL DEVICE DESCRIPTION: Selective Catalytic Reduction for NOx Control

OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? [X] Yes [ ] No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)			100.0000							
CONTROL DEVICE EFFICIENCY (%)			93.0000							
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-02	10101302	4	CD05	128

CONTROL DEVICE DESCRIPTION: ESP-HIGH EFFICIENCY

OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? [X] Yes [ ] No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000					100.0000		100.0000		
CONTROL DEVICE EFFICIENCY (%)	95.0000					95.0000		95.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-02	10101302	4	CD11	139

CONTROL DEVICE DESCRIPTION: Selective Catalytic Reduction for NOx Control

OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? [X] Yes [ ] No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): S-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)			100.0000							
CONTROL DEVICE EFFICIENCY (%)			93.0000							
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-04	30501008	1	CD06	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER - LOW TEMP

OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? [X] Yes [ ] No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-1

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	99.0000							99.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	1	CD02	217

CONTROL DEVICE DESCRIPTION: WATER SPRAY

OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? [X] Yes [ ] No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	50.0000							50.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	1	CD03	217

CONTROL DEVICE DESCRIPTION: WET CHEMICAL DUST SUPPRESSION

OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? [X] Yes [ ] No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000									
CONTROL DEVICE EFFICIENCY (%)	65.0000									
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	1	CD09	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER LOW TEMP

OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? [X] Yes [ ] No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	90.0000							90.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	1	CD06	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER - LOW TEMP

OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? [X] Yes [ ] No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	99.0000							99.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	1	CD01	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER LOW TEMP

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000									
CONTROL DEVICE EFFICIENCY (%)	99.0000									
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	2	CD02	217

CONTROL DEVICE DESCRIPTION: WATER SPRAY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	50.0000							50.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	2	CD03	217

CONTROL DEVICE DESCRIPTION: WET CHEMICAL DUST SUPPRESSION

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000									
CONTROL DEVICE EFFICIENCY (%)	65.0000									
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	2	CD09	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER LOW TEMP

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	90.0000							90.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	2	CD06	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER - LOW TEMP

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	99.0000							99.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	2	CD01	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER LOW TEMP

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000									
CONTROL DEVICE EFFICIENCY (%)	99.0000									
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	3	CD02	217

CONTROL DEVICE DESCRIPTION: WATER SPRAY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	50.0000							50.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	3	CD03	217

CONTROL DEVICE DESCRIPTION: WET CHEMICAL DUST SUPPRESSION

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000									
CONTROL DEVICE EFFICIENCY (%)	65.0000									
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	3	CD09	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER LOW TEMP

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	90.0000							90.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	3	CD06	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER - LOW TEMP

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	99.0000							99.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	3	CD01	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER LOW TEMP

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000									
CONTROL DEVICE EFFICIENCY (%)	99.0000									
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	4	CD02	217

CONTROL DEVICE DESCRIPTION: WATER SPRAY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	50.0000							50.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	4	CD03	217

CONTROL DEVICE DESCRIPTION: WET CHEMICAL DUST SUPPRESSION

OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? [X] Yes [ ] No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000									
CONTROL DEVICE EFFICIENCY (%)	65.0000									
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	4	CD09	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER LOW TEMP

OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? [X] Yes [ ] No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	90.0000							90.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	4	CD06	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER - LOW TEMP

OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? [X] Yes [ ] No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	99.0000							99.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-05	30501011	4	CD01	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER LOW TEMP

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-2

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000									
CONTROL DEVICE EFFICIENCY (%)	99.0000									
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-06	30501010	1	CD09	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER LOW TEMP

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-3

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	90.0000							90.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-07	30501015	1	CD07	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER LOW TEMP

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-4

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	99.0000							99.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-07	30501015	2	CD07	127

CONTROL DEVICE DESCRIPTION: FABRIC FILTER LOW TEMP

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☒ Yes ☐ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION): V-4

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	99.0000							99.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
EP-11	30501110	1	CD02	217

CONTROL DEVICE DESCRIPTION: WATER SPRAY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☐ Yes ☒ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION):

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	50.0000							50.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
FE-01	30501043	1	CD02	217

CONTROL DEVICE DESCRIPTION: WATER SPRAY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☐ Yes ☒ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION):

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	50.0000							50.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
FE-01	30502007	2	CD02	217

CONTROL DEVICE DESCRIPTION: WATER SPRAY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☐ Yes ☒ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION):

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	50.0000							50.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
FE-02	30502011	1	CD08	217

CONTROL DEVICE DESCRIPTION: WATER SPRAY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☐ Yes ☒ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION):

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	50.0000							50.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
FE-03	30501008	1	CD08	217

CONTROL DEVICE DESCRIPTION: WATER SPRAY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☐ Yes ☒ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION):

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	50.0000							50.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
FE-05	30501024	1	CD02	217

CONTROL DEVICE DESCRIPTION: WATER SPRAY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☐ Yes ☒ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION):

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	50.0000							50.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
FE-06	30502007	1	CD02	217

CONTROL DEVICE DESCRIPTION: WATER SPRAY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☐ Yes ☒ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION):

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	50.0000							50.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DEVICE NO.	DEVICE CODE
FE-07	50300810	1	CD02	217

CONTROL DEVICE DESCRIPTION: WATER SPRAY

OPERATING STATUS (CHECK ONE): ☒ Active ☐ Inactive ☐ Dismantled

ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? ☐ Yes ☒ No

LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON 2.0S STACK/VENT INFORMATION):

AIR POLLUTANT	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAP(s)	PM25 FIL	NH3	PM CON
CAPTURE EFFICIENCY (%)	100.0000							100.0000		
CONTROL DEVICE EFFICIENCY (%)	50.0000							50.0000		
SOURCE OF EFFICIENCY (CODES)										

CAS NUMBER(S) FOR CONTROLLED HAPS:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0S STACK/VENT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-01	10100501	3	☒ Stack ☐ Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
S-1	BOILER #1 - BITUMINOUS COAL	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
800.00	20.000	322.90	4,090.00	1,284,911.40	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-01	10100223	2	☒ Stack ☐ Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
S-1	BOILER #1 - BITUMINOUS COAL	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
800.00	20.000	322.90	4,090.00	1,284,911.40	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-01	10100203	1	☒ Stack ☐ Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
S-1	BOILER #1 - BITUMINOUS COAL	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
800.00	20.000	322.90	4,090.00	1,284,911.40	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-01	10101302	4	☒ Stack ☐ Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
S-1	BOILER #1 - BITUMINOUS COAL	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
800.00	20.000	322.90	4,090.00	1,284,911.40	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0S STACK/VENT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-02	10100501	3	☒ Stack ☐ Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
S-2	BOILER #2-SUBBITUMINOUS COAL	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
800.00	20.000	351.40	4,200.00	1,319,400.00	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-02	10100203	1	☒ Stack ☐ Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
S-2	BOILER #2-SUBBITUMINOUS COAL	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
800.00	20.000	351.40	4,200.00	1,319,400.00	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-02	10100223	2	☒ Stack ☐ Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
S-2	BOILER #2-SUBBITUMINOUS COAL	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
800.00	20.000	351.40	4,200.00	1,319,400.00	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-02	10101302	4	☒ Stack ☐ Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
S-2	BOILER #2-SUBBITUMINOUS COAL	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
800.00	20.000	351.40	4,200.00	1,319,400.00	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0S STACK/VENT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-03	20100102	1	[X] Stack [ ] Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
S-3	EMERGENCY GENERATOR	100.00

STACK/VENT OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
18.00	0.920	302.00	13,022.00	8,656.52	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-04	30501008	1	[X] Stack [ ] Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
V-1	COAL UNLOADING	100.00

STACK/VENT OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
10.00	9.000	101.00	1,998.00	127,194.00	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-05	30501011	1	[X] Stack [ ] Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
V-2	COAL CRUSHING	100.00

STACK/VENT OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
5.70	2.170	77.00	13,022.00	48,160.06	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-05	30501011	2	[X] Stack [ ] Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
V-2	COAL CRUSHING	100.00

STACK/VENT OPERATING STATUS (CHECK ONE): [X] Active [ ] Inactive [ ] Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
5.70	2.170	77.00	13,022.00	48,160.06	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0S STACK/VENT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-05	30501011	3	☒ Stack ☐ Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
V-2	COAL CRUSHING	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
5.70	2.170	77.00	13,022.00	48,160.06	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-05	30501011	4	☒ Stack ☐ Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
V-2	COAL CRUSHING	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
5.70	2.170	77.00	13,022.00	48,160.06	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-06	30501010	1	☒ Stack ☐ Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
V-3	COAL CRUSHING	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
11.72	5.200	77.00	13,022.00	276,550.38	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-07	30501015	1	☒ Stack ☐ Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
V-4	ASH LOADING	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
86.00	3.000	68.00	2,532.00	17,916.00	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0S STACK/VENT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		FOR A NON-CIRCULAR STACK:
EP-07	30501015	2	☒ Stack ☐ Vent	DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
V-4	ASH LOADING	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
86.00	3.000	68.00	2,532.00	17,916.00	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		FOR A NON-CIRCULAR STACK:
EP-08	40400101	1	☒ Stack ☐ Vent	DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
V-5	GASOLINE STORAGE	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
8.00	0.250	77.00	6.00	0.29	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		FOR A NON-CIRCULAR STACK:
EP-08	40400107	2	☒ Stack ☐ Vent	DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
V-5	GASOLINE STORAGE	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
8.00	0.250	77.00	6.00	0.29	

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		FOR A NON-CIRCULAR STACK:
EP-09	20200102	1	☒ Stack ☐ Vent	DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
S-4	Barge Diesel Pumps (Qty = 8)	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
15.00	0.667	302.00	987.40	345.00	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0S STACK/VENT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.		
EP-10	20200401	1	☒ Stack ☐ Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A)^1/2 (A=CROSS SECTIONAL AREA IN SQ FEET)

STACK/VENT NO.	STACK/VENT DESCRIPTION	% OF EMISSIONS RELEASED
S-5	Temporary Air Compressor Exhaust	100.00

STACK/VENT OPERATING STATUS (CHECK ONE) ☒ Active ☐ Inactive ☐ Dismantled

HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
15.00	0.667	1,152.00	9,470.10	3,309.00	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.5L GENERAL LIQUID STORAGE TANK INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
EP-08		40400101	1	8.000	8.00	0.00

CAPACITY (IN THOUSANDS OF GALLONS)	THROUGHPUT (IN THOUSANDS OF GALLONS)	TANKS PROGRAM USED?
3.0000	21.620000	☐ Yes ☒ No

CAS NUMBER	CHEMICAL	CHOOSE TYPE OF TANK (CHECK ONE)
8006-61-9	Gasoline	☒ Vertical fixed roof ☐ Vertical floating roof ☐ Horizontal fixed roof ☐ Underground

EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
EP-08		40400107	2	3.000	8.00	0.00

CAPACITY (IN THOUSANDS OF GALLONS)	THROUGHPUT (IN THOUSANDS OF GALLONS)	TANKS PROGRAM USED?
3.0000	21.620000	☐ Yes ☒ No

CAS NUMBER	CHEMICAL	CHOOSE TYPE OF TANK (CHECK ONE)
8006-61-9	Gasoline	☒ Vertical fixed roof ☐ Vertical floating roof ☐ Horizontal fixed roof ☐ Underground

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 3.0 EMISSIONS FEE CALCULATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

Use one row to list the emissions from one emission unit. Sum the emissions in the page total box at the bottom of the column. If more than one page is needed, use the first row of the duplicated page to list the page totals from this page. Express figures in tons per year and round to two decimal places.

1. EMISSION UNIT NO. / SCC	AIR POLLUTANT									
	PM10 FIL	SOx	NOx	VOC	CO	LEAD	HAPs	PM2.5 FIL	NH3	PM CON
EP-01 / 10100501	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00
EP-01 / 10100223	262.72	8,143.10	11,429.13	128.86	2,763.62	0.03	71.73	111.15	0.66	127.40
EP-01 / 10100203	0.06	0.00	0.00	0.03	0.68	0.00	0.00	0.03	0.00	0.03
EP-01 / 10101302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EP-02 / 10100501	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
EP-02 / 10100203	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EP-02 / 10100223	271.48	8,528.70	9,135.67	133.43	2,098.79	0.04	73.93	114.86	0.69	191.05
EP-02 / 10101302	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EP-03 / 20100102	0.05	0.14	2.10	0.17	0.45	0.00	0.00	0.05	0.00	0.00
EP-04 / 30501008	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EP-05 / 30501011	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00
EP-05 / 30501011	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
EP-05 / 30501011	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EP-05 / 30501011	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
EP-06 / 30501010	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00
EP-07 / 30501015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EP-07 / 30501015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

EP-08 40400101	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00
EP-08 40400107	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
EP-09 20200102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EP-10 20200401	0.00	0.02	0.07	0.00	0.05	0.00	0.00	0.00	0.00	0.00
EP-11 30501110	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EP-12 30501110	6.64	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
EP-14 30501110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EP-15 30501110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FE-01 30501043	7.11	0.00	0.00	0.00	0.00	0.00	0.00	1.07	0.00	0.00
FE-01 30502007	36.50	0.00	0.00	0.00	0.00	0.00	0.00	5.46	0.00	0.00
FE-02 30502011	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
FE-03 30501008	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FE-04 30501024	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FE-05 30501024	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00
FE-06 30502007	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00
FE-07 50300810	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00
PAGE TOTALS	595.77	16,671.96	20,566.97	262.86	4,863.59	0.07	145.66	235.56	1.34	318.48

Note: Fill out the lower portion of this form one time only.

2. ACTUAL EMISSIONS (Use the sum of all page totals for each pollutant for actual emission figures below.)

	PM10 TOTAL	**SOx**	**NOx**	**VOC**	**CO**	**LEAD**	**HAPs**	**PM2.5 TOTAL**	**NH3**	**PM CON**
Total	914.25	16,671.96	20,566.97	262.86	4,863.59	0.07	145.66	554.04	1.34	Included in Total PM10 and PM2.5

Copy the actual emissions from section 2 to the appropriate box(es) in the Total Plant Emissions section of *Form 1.0 General Plant Information.*

3. CHARGEABLE EMISSIONS (Maximum 4,000 Tons/Yr. cap per pollutant)

Total	914.25	4,000.00	4,000.00	262.86	**NO FEES FOR CO**	0.07	145.66	**NO FEES FOR PM2.5**	**NO FEES FOR NH3**	PM CON is included in PM10 and PM2.5

4. SUM OF CHARGEABLE EMISSIONS SUBJECT TO FEES

Round chargeable emissions to the nearest whole ton. The minimum emission tonnage is one ton, and the maximum is 12,000 tons per year.	9,323.00	Tons/Yr.

5. TOTAL ANNUAL EMISSIONS FEE	
Multiply the sum of chargeable emissions as calculated in section 4 by $48 and enter this amount in section 5. The minimum fee is $48.	$ 372,920.00

6. ANNUAL EMISSIONS FEE REMITTED TO THE CITY OF KANSAS CITY OR ST. LOUIS COUNTY LOCAL AIR AGENCY		
CHECK NUMBER	CHECK DATE	AMOUNT REMITTED IN CALENDAR YEAR OF RECORD
		$ 0.00

7. ANNUAL EMISSIONS FEE REMITTED TO THE STATE (SECTION 5 MINUS SECTION 6)		
CHECK NUMBER	CHECK DATE	CHECK AMOUNT
		$ 372,920.00

8. INCLUDE A CHECK FOR THE AMOUNT IN SECTION 7, PAYABLE TO THE MISSOURI AIR POLLUTION CONTROL PROGRAM.
Mail the check for the emissions fee to the State Air Agency listed on Form 1.0.
9. SEND THE COMPLETED QUESTIONNAIRE AND ANY SUPPORTING DOCUMENTATION TO THE AGENCY LISTED AT THE BOTTOM OF *FORM 1.0 GENERAL PLANT INFORMATION*.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 4.0 FINANCIAL COST ESTIMATE

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
NEW MADRID POWER PLANT MARSTON	143	0004	2014

The Missouri Air Conservation Law, Chapter 643, requires a financial cost estimate. The cost estimate is an evaluation of any additional costs of doing business attributable to the Federal Clean Air Act, as amended.

Calculate the cost and expenses incurred to complete the Emission Inventory Questionnaire, including the calculation of emission fees. If you hired an outside consultant, include the time and money charged to your company. Also include any cost incurred if you installed air pollution control equipment, any additional monitoring or testing expense or any additional personnel costs incurred to comply with the Missouri Air Conservation Law and the Federal Clean Air Act, as amended.

Be sure to use the codes found in the instructions: www.dnr.mo.gov/env/apcp/eiq/eiqinformation.htm.

	CATEGORY REPORTING	CODE FOR PERSONNEL OR EQUIPMENT	NUMBER OF EMPLOYEES	TOTAL NUMBER OF HOURS REQUIRED	COST PER HOUR	TOTAL COST
1.	EIQ reviewed and completed by company personnel (engineers, technical specialists, others).	A04 : Coordinator (Compliance, Environmental, Facility, Permit, and Safety)	1	60.0	60.00	3,600.00
1.	EIQ reviewed and completed by company personnel (engineers, technical specialists, others).	A25 : Senior Field Specialist	1	24.0	60.00	1,440.00
1.	EIQ reviewed and completed by company personnel (engineers, technical specialists, others).	A26 : Senior Specialist	1	8.0	60.00	480.00
3.	Pollution control equipment, monitoring, or testing (List items separately).	D02 : CEM Operations and Maintenance				32,000.00
5.	Personnel and other costs associated with complying with the Clean Air Act, as amended, not included above.	B07 : Maintenance of Control Equipment				2,006,500.00
5.	Personnel and other costs associated with complying with the Clean Air Act, as amended, not included above.	E03 : Emission Fees				372,920.00
5.	Personnel and other costs associated with complying with the Clean Air Act, as amended, not included above.	EXX : Allowances				1,044,050.00
	Total					3,460,990.00

Remarks